RFL INDUSTRIES, INC.

aka RADIO FREQUENCY LABS

aka DOWTY RFL INDUSTRIES, INC.

POWERVILLE ROAD

BOONTON, MORRIS COUNTY, NEW JERSEY

EPA ID# NJD002156677

GENERAL INFORMATION AND SITE HISTORY

The site is located on 15.9 acres in a rural/industrial area of Boonton, Morris County. It is bounded on the north by Johanson Manufacturing Corporation, on the south and east by Powerville Road and private residences and on the west by Aircraft Radio Corporation. The property is located on Block 12, Lots 19.1, 20 and 24. The population within a 4 mile radius of the site is approximately 49,000.

Radio Frequency Labs (RFL) was built on vacant land in 1922. The operation consisted of electroplating, metal finishing and printed circuit board manufacturing. The plating operation was discontinued in 1980 and moved to RFL's Newton, New Jersey facility. In 1983, the Dowty Group, a Delaware Corporation, purchased RFL and changed the name of the facility to Dowty RFL Industries, Inc. The metal finishing operation was eliminated in 1985 due to excessive cost of waste management practices. Presently, only soldering operations associated with circuit board manufacturing are conducted.

SITE OPERATIONS OF CONCERN

RFL Industries, Inc. electroplated and manufactured printed circuit boards and performed metal finishing of aluminum and steel parts since its inception in 1922. In 1980, the plating operation was abandoned and relocated to RFL's Newton, New Jersey facility. In 1985, the metal finishing operation was discontinued due to excessive cost of waste management responsibilities. Currently, Dowty RFL Industries, Inc. (the Dowty Group purchased the site in 1983) is involved solely in electronic component manufacturing for the communication industry.

The raw materials used in the electroplating and metal finishing operations were cadmium, lead, chromium and cyanide-based plating baths. Solvents, acids and bases were also used in the degreasing, cleaning and etching stages of production. Waste waters containing volatile organic compounds and heavy metals were neutralized in mixing tanks and piped to an on-site unlined surface impoundment/percolation lagoon at a rate of 3,000 to 3,500 gallons per day. The lagoon was located in the southeast section of the facility approximately 300 feet southeast of Building #12. Constructed in 1972, it was formed by excavating to a depth of 2 feet and forming the dike walls with the excavated material. After the diking material was put in place the total depth of the lagoon was 8 feet. The lagoon was triangular in shape measuring 120 feet by 100 feet by 80 feet. A spray aerator was installed in 1980 to reduce volatile organic compounds in the waste water. The specific wastes contained in the discharge to the lagoon are listed in Attachment CC. In July 1983, a closed looped treatment system was emplaced and all discharges to the lagoon ceased. This system consisted of a mixing chamber, settling chamber and sludge filter. All waste waters were collected and pH adjusted. The treated liquid was returned back to the

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system for reuse and the remaining sludge was stored on site in 55-gallon drums. Approximately 15 gallons of sludge was generated each month. The sludge was ultimately manifested off site as hazardous waste.

The current and only process at the facility includes loading pre-made components onto circuit boards and passing these boards through a wave solder machine. Preheated flux containing 90% isopropyl alcohol is applied to the boards prior to wave solder enabling the solder to flow more effectively. Approximately 10 gallons of waste flux is generated each month and stored in 55-gallon drums. The waste is considered hazardous and is manifested off site. The circuit boards are cleaned in a Genesolv DFX solvent machine which uses trichlorofluoroethane. Approximately 5 gallons per year of waste is generated and manifested off site. All waste drums are stored on site for less than 90 days.

There are no reports of any spills or illegal discharges on site.

In February 1981, RFL filed a Part A Application with the USEPA requesting a permit to conduct hazardous waste activities. The USEPA subsequently referred the request to the NJDEP for issuance of the permit. RFL was granted interim status as a Treatment, Storage and Disposal (TSD) facility in May 1982. All discharges to the on site lagoon were halted as of July 1, 1983. A closure plan for the lagoon was submitted to the NJDEP in December 1983 by Ground/Water Technology, Inc. of Denville, New Jersey. In December 1984, the NJDEP/DWR issued a NJPDES permit to RFL which incorporated the closure activities. RFL hired Kramer Chemicals, Inc. of Clifton, New Jersey to perform the closure during the period of December 2, 1985 through December 10, 1985. All freestanding liquids were removed from the lagoon and transported, accompanied by manifest, to the Dupont Company Environmental Services Chambers Works, Deepwater, New Jersey. A total of 15,500 gallons of liquid was removed and handled as a hazardous waste. All sludge, piping pallets and vegetation present in the lagoon were removed and trucked, accompanied by manifest, to Wayne Disposal, Belleville, Michigan. Five-hundred tons of waste was transported as a hazardous waste. (Note: Pre-sampling of both liquid and solid waste from the lagoon indicated the materials were not hazardous waste but RFL chose to manifest as hazardous.) After removal, the lagoon was backfilled using material from the containment dike and by scraping the native soil around the lagoon to smooth out contour grades. The NJDEP/DWR/Bureau of Water Quality Management reviewed the closure certification in March 1986 and approved all activities. Although proper closure of the on-site lagoon was achieved, the facility currently maintains a Generator/TSD status because of groundwater contamination which remains beneath the site.

GROUNDWATER ROUTE

The site is located on the buried portion of the southeast side of the northeast-southwest trending valley of Precambrian gneiss of the New Jersey Highlands. Approximately 25 to 45 feet beneath the surface is the uneven bedrock. The bedrock appears to form a shelf on the side of the main valley as depths greater than 100 feet have been found adjacent to the site. The soil is predominantly Wisconsin stratified drift, a glacial deposit made up of layers of sand and gravel, sand and silty sand. Portions of the site are underlain by as much as 8 feet of fill.

The groundwater is located at a depth of 10 feet and flows south from the on-site lagoon to an unnamed stream which passes through the site. The stream eventually flows to the Rockaway River approximately 1 mile to the south. Ninety percent of the residences of Boonton or approximately 40,000 people are supplied with potable water from individual private wells. Prior to the discovery of groundwater contamination on site, RFL drew water for domestic uses from a dug well. In addition, a three well point system produced water for air conditioning.

In February 1979, RFL applied for NPDES Permit No. NJ0032972 with the USEPA. A draft permit was prepared by the USEPA and submitted to the NJDEP. The State did not approve the permit because of possible groundwater contamination from the activities in the on-site lagoon. In June 1980, the NJDEP instructed RFL to install three monitoring wells (MW) to determine if groundwater had been affected. These wells were subsequently installed by Moretrench American Well Company of Rockaway, New Jersey. MW-1 was drilled to a depth of 29 feet and upgradient from the lagoon. MW-2 (26 feet deep) and MW-3 (30 feet deep) were placed downgradient of the lagoon. In July 1980, the NJDEP/Division of Water Resources (DWR) sampled RFL's discharge, lagoon and monitoring wells. High levels of volatile organics were discovered in all samples. Sampling was continued for three consecutive months followed by quarterly monitoring thereafter. The samples were collected and analyzed by Industrial Corrosion Management Incorporated of Randolph, New Jersey. In addition to groundwater sampling, the discharge pipe to the lagoon, the lagoon and an upstream and downstream sample of the unnamed stream were collected. Again, results indicated the presence of volatile organics in all areas of sampling. In August 1983, a fourth monitoring well was installed downgradient of the lagoon to further delineate the groundwater problem. MW-4 was installed to a depth of 24 feet.

In December 1984, Dowty RFL was granted an interim NJPDES permit (No.0099104) to monitor groundwater as an Industrial Waste Mangement Facility (IWMF) and to implement closure of the on-site lagoon. All four monitoring wells were sampled and analyzed on a quarterly basis. In March 1988, RFL renewed its NJPDES permit which will again expire in 1993. RFL requested termination of its NJPDES permit as recent sampling results have not revealed any detectable levels of contamination. The permit was not terminated but sampling was modified from quarterly to semi-annually until a total of four consecutive sampling events report no detectable levels of contaminants.

Sampling data from various sampling episodes will be discussed below.

SURFACE WATER ROUTE

A small unnamed stream passes through the eastern section of the site. site the stream is diverted forming a Fire Pond and is reverted back to a stream after leaving the site. This stream is a small tributary that leads to the Rockaway River approximately 1 mile to the south. An upstream and two downstream samples are collected on a quarterly basis as part of the groundwater monitoring program at RFL. Sampling results are discussed below. There are wetland areas north and south of the site within a 1 mile radius.

The Rockaway River and accompanying stream are both used for recreational purposes.

AIR ROUTE

Prior to 1978, RFL operated an on-site incinerator to burn trash. activity was permitted (permit P-8944) by the Division of Environmental Quality/Bureau of Air Pollution. After 1978 this permit was never renewed.

There are no reports of violations of this permit or any other air violations.

SOIL

There is no evidence of any release or spills of hazardous waste to the soil. The only releases noted are to the on-site lagoon. The lagoon has undergone a certified closure. Sampling data from various sampling episodes will be discussed below.

DIRECT CONTACT

There is no potential for direct contact to areas on site as the site is enclosed by a fence.

FIRE AND EXPLOSION

There is no added potential for fire and explosion because of the nature of the operation on site.

ADDITIONAL CONSIDERATIONS

There is a potential for damage to flora, fauna or off-site property if groundwater contamination migrates to the unnamed stream.

ENFORCEMENT ACTIONS

In January 1982, the USEPA issued a Complaint, Compliance Order, and Notice of Opportunity for Hearing and subsequently a Consent Agreement and Final Order in March 1982 based on an inspection performed at the site. The inspection revealed the generation and storage of hazardous waste in an unsafe manner. Five to six leaking drums of hazardous waste were stored on the ground surrounded by evidence of spills.

In July 1983, NJDEP/DWR issued an Administrative Consent Order for the discharge of pollutants without a valid NJPDES permit.

In August 1984, the NJDEP/DWR issued a Notice of Violation for failure to submit the required non-sudden liability insurance to the Division of Hazardous Waste Engineering.

In July 1986, NJDEP/DWM issued a Notice of Violation for numerous hazardous waste and maintanence of records violations.

In November 1987, NJDEP/DHWM issued a Notice of Violation for omissions in the Site Contingency Plan.

Summary of Sampling Data

Sampling Date: 1.

January 30, 1979

Sampled By:

NJ Department of Health (NJDOH)

Samples:

Five lagoon water samples

Laboratory:

NJDOH

Parameters:

Volatile organic and

metal scan

Sample Description:

Wastewater influent and several area lagoon samples were collected

Contaminants Detected:

ContaminantConcentrationtrichloroethane480 ppbtrichloroethylene225 ppbtoluene55 ppbchloroform225 ppb

QA/QC:

None

File Location:

NJDEP/DWR/Bureau of Groundwater Pollution Abatement (BGWPA)

2. Sampling Date:

July 10, 1980

Sampled By:

NJDEP/DWR

Samples:

Six groundwater, one surface water and two lagoon samples

were collected

Laboratory:

NJDOH

Parameters:

Volatile organic and metal scan

Sample Description:

Three groundwater monitoring wells, three water supply wells, one fire pond sample and two lagoon water samples were collected

Contaminants Detected:

Two lagoon samples:

<u>Contaminant</u>		<u>Concentration</u>				
1,1,1-trichloroethane	971	to	2,6	607	ppb	
trichloroethylene	660	to	1,2	243	ppb	
tetrachloroethylene	9	18	to	56	ppb	
toluene		21	to	26	ppb	

Fire Pond:

toluene	26	ppb
1.1.1-trichlorethane	971	
• •		
trichloroethylene		ppb
tetrachloroethylene		ppb
xylene	1.7	ppb

MW1

<u>Contaminant</u>	Concentration
chloroform	1.1 ppb
benzene	0.3 ppb
trichlorofluorometha	ane 2.3 ppb
1,1,1-trichloroethane	1.3 ppb
MW2	
toluene	16.1 ppb
trichloroethylene	26.0 ppb
ethylbenzene	1.3 ppb
1,1,2-trichloroethane	2.5 ppb
carbon tetrachlorid	e 1.1 ppb
1,2-dichloroethane	9.0 ppb
tetrachloroethylene	2.8 ppb
chloroform	1.7 ppb
1,1,1-trichloroethane	22.6 ppb
1,1-dichloroethylene	2.1 ppb
M13	
MW3	
1,2-dichloroethylene	2.0 ppb
1,2-dichloroethane	2.6 ppb
trichloroethylene	6.0 ppb
1,1,1-trichloroethane	11.1 ppb
tetrachloroethylene	7.4 ppb
Supply Well #1	
methylene chloride	3.2 ppb
tetrachloroethylene	
trichloroethylene	8.1 ppb
1,1,1-trichloroethane	8.3 ppb
Supply Well #2	
trichloroethylene	0.5 ppb
1,1,1-trichloroethane	1.3 ppb
1,1-dichloroethylene	3.4 ppb
Supply Well #3	
trichloroethylene	5.0 ppb
1,1,1-trichloroethane	9.8 ppb
trichlorofluorometh	- -
carbon tetrachloric	
1,1-dichloroethylene	1.3 ppb
chloroform	1.2 ppb
CHIOLOLOLM	2.2 pps

QA/QC:

File Location:

None

NJDEP/DWR/BGWPA

Sampling Date: 3.

September 24, 1980

Sampled By:

Eastern Chemical P.O. Box 354, Park Station Paterson, New Jersey

Samples:

Two aqueous lagoon samples were

collected

Laboratory:

United States Testing Company

1415 Park Avenue

07030 Hoboken, NJ

(201) 792-2400

Parameters

Volatile organic scan

Sample Description

One lagoon water sample and one point of discharge water sample was

collected

Contaminants Detected:

Lagoon:

Concentration Contaminant 1,1,1-trichloroethane 220 ppb trichloroethylene 72 ppb

Point of Discharge:

1,1,1-trichloroethane trichloroethylene 1,700 ppb 560 ppb

QA/QC:

None

File Location:

NJDEP/DWR/BGWPA

4. Sampling Date: November 5, 1980

Sampled By:

Eastern Chemical Co.

Samples:

Two lagoon sludge and two drinking water samples were

collected

Laboratory:

United States Testing Company

Parameters:

Volatile organic scan

Sample Description:

Two samples from the base of the lagoon and two samples from the on-site potable wells were collected

Contaminants Detected:

No hazardous waste constituents above the detection limit of 5 ppb were found in the drinking water samples

Sludge Samples:

<u>Contaminant</u>	Concentrati	<u>Lon</u>
methylene chloride	3.7-550	ppb
1,1-dichloroethane	6.88-48	ppb
1,2-dichloroethane	9.21-18	ppb
1,1,1-trichloroethane	10.91-510	
trichloroethylene	19.14-230	ppb

QA/QC:

None

File Location:

NJDEP/DWR/BGWPA

5. Sampling Date:

May 1, 1981

Sampled By:

Industrial Corrosion Management Corporation (ICMC) 1152 Route 10

Randolph, New Jersey 07869

Samples:

Three groundwater samples

were collected

Laboratory:

ICMC

Parameters:

Volatile organic scan

Sample Description:

One sample from each of the three site monitoring wells

Contaminants Detected:

MW1 - none MW2

Contaminant trichloroethylene 1,1,1-trichloroethane 1,2-dichloroethylene 1,1-dichloroethane	Concentration 5.6 ppb 3.4 ppb 3.7 ppb 2.7 ppb	Ī
MW3		
trichloroethylene 1,1,1-trichloroethane 1,2-dichloroethylene 1,1-dichloroethane methylene chloride	49 ppb 21.3 ppb 3.3 ppb 27.2 ppb 9.8 ppb	

QA/QC:

None

File Location:

NJDEP/DWR/BGWPA

6. Sampling Date:

July 14, 1982 thru October 29, 1984 approximately three times per year.

Sampled By:

ICMC

Samples:

On each sampling date four groundwater, three surface water and one lagoon sample were collected

Laboratory:

ICMC

Parameters:

Volatile organic scan, hexavalent and total chromium, lead, nickel and oil and grease

Sample Description:

Four on-site monitoring wells, one upstream and two downstream and one lagoon sample were collected

Contaminants Detected

MW1.

Contaminant Concentration
1,1-dichloroethane 0 to 69.6 ppb
1,1,2-trichloroethane 0 to 9.4 ppb

MW2

Total volatile organics (TVO) ranged from 10 to 1653 ppb.

MW3

TVOs ranged from 0.97 to 173.5 ppb

MW4

No hazardous waste constituents were detected

Downstream

TVOs ranged from 1.7 to 196.7 ppb

Upstream

Contaminant Concentration chloroform 0.4 ppb 1.1.1-trichloroethane 0.3 ppb

Lagoon

TVOs ranged from 7.7 to 453 ppb

Contaminant

hexavalent chromium 110 to 487 ppb

chromium 4 to 1,840 ppb

lead 11 to 2,490 ppb

(See specific results in Attachment

S8

QA/QC:

ICMC is a New Jersey State certified lab #14116.

File Location:

NJDEP/DWR/BGWPA

Sampling Date: 7.

September 17, 1985

Sampled By:

USEPA

Sample:

Four groundwater monitoring

well samples

Laboratory:

USEPA

Parameters:

Total organic carbon and halides, pH, specific conductivity, cyanide, hexavalent chromium, metal scan, and purgeable organics

Sample Description:

Aqueous samples from four site monitoring wells

Contaminants Detected:

Elevated levels of methylene chloride, trichloroethylene, toluene and tetrachloroethylene were detected (See Table 1-5

Attachment S9)

QA/QC:

One field blank was prepared

File Location:

NJDEP/DWR/BGWPA

Recommendation

The Bureau of Planning and Assessment recommends no further action as the on-site groundwater problem is being addressed by Division of Water Resources/Bureau of Ground Water Pollution Abatement.

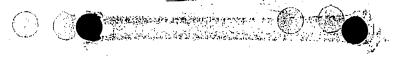
Submitted by:

FRANK SORCE HSMS III BUREAU OF PLANNING AND ASSESSMENT MARCH 30, 1990

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BUREAU OF PLANNING AND ASSESSMENT FILE/DOTA CHECK SHEET Developed by NJDEP DHWM/BPA 1/14/1980

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POWERVILLE ROAD

BOONTON, MORRIS COUNTY, NEW JERSEY

EPA ID# NJD002156677

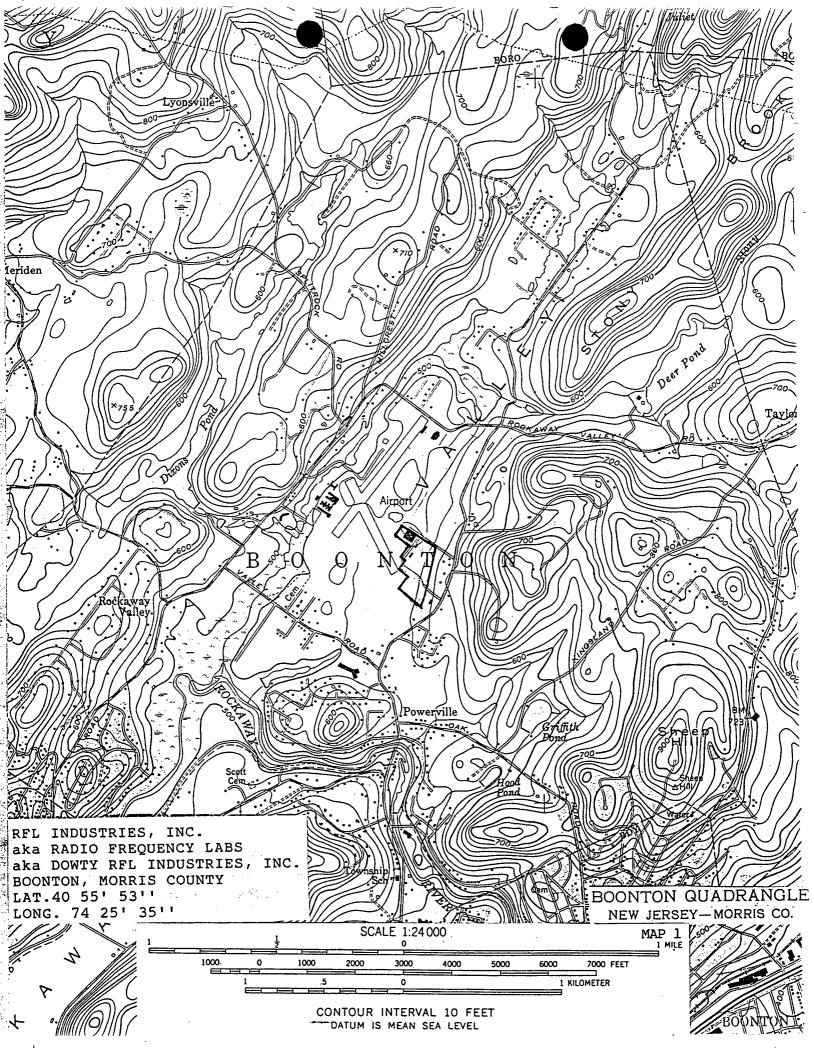
MAPS

- 1. USGS QUADRANGLE MAP BOONTON QUAD
- 2. (a,b,c) SITE MAP
- 3. TAX MAP
- 4. NJ ATLAS BASE MAP SHEET 22 & 25
- 5. GEOLOGIC OVERLAY
- 6. WATER SUPPLY MAP
- 7. WATER WITHDRAWAL MAP
- 8. COUNTY ROAD MAP

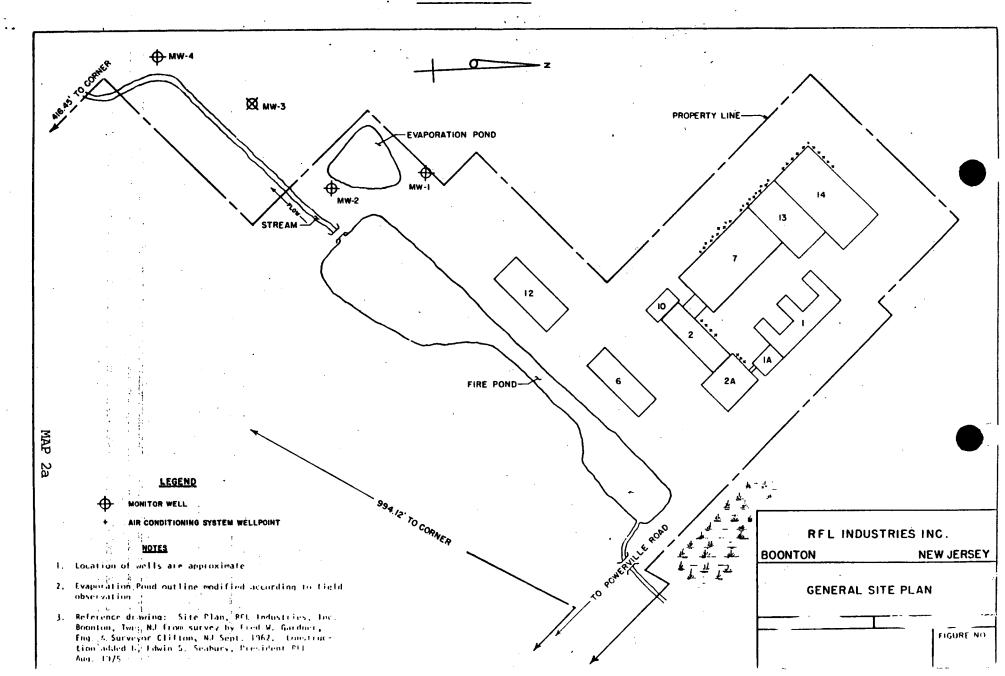
ATTACHMENTS

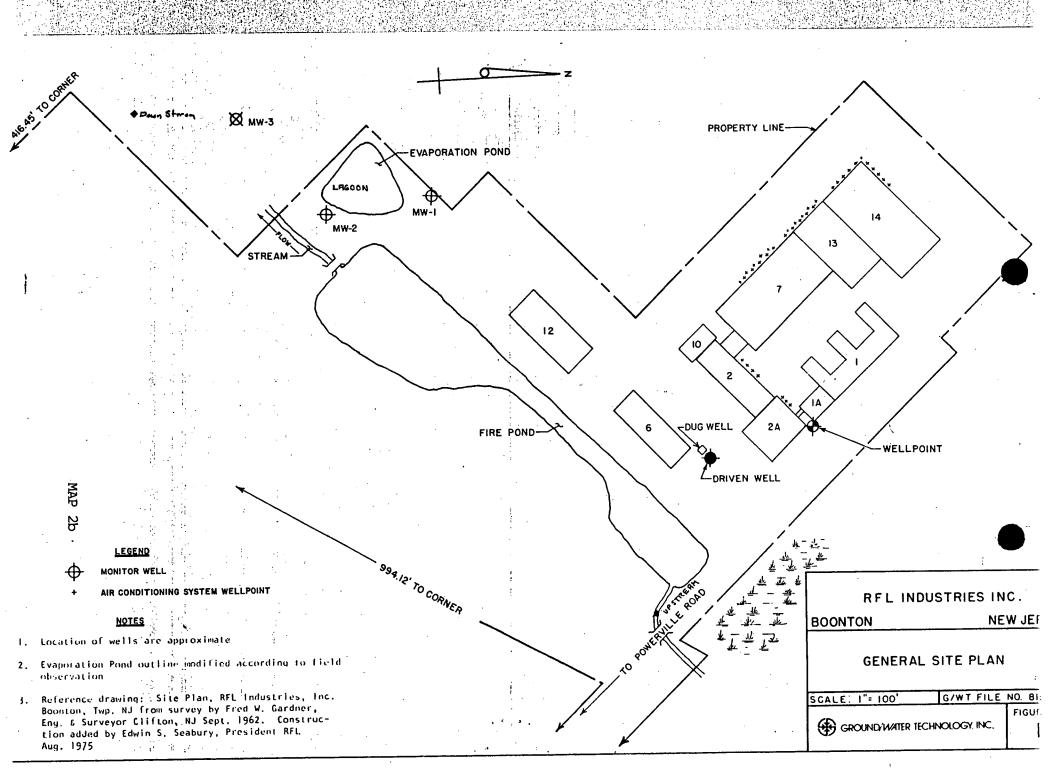
- A. NJDEP/DWR LETTER DENYING TERMINATION OF NJPDES PERMIT, JULY 1989
- B. RFL REQUEST FOR TERMINATION OF NJPDES PERMIT, JUNE 1989
- C. NJDEP/DHWM INSPECTION REPORT
- D. AMERICAN DEWATERING CORPORATION PUMP TEST REPORT, APRIL 1966
- E. GROUND/WATER TECHNOLOGY PRELIMINARY HYDROGEOLOGICAL INVESTIGATION, FEBRUARY 1982
- F. NPDES APPLICATION
- G. RFL REQUEST FOR REVISIONS OF MONITORING REQUIREMENTS
- H. NJDEP/DWR LETTER DENYING TERMINATION OF NJPDES PERMIT, FEBRUARY 1987
- I. NJPDES PERMIT, MARCH 1988
- J. NJPDES PERMIT, DECEMBER 1984
- K. SUBMITTALS REQUIRED BY NJPDES PERMIT PREPARED BY GROUND/WATER TECHNOLOGY, JANUARY 1985
 - 1. MONITORING WELL CERTIFICATION FORMS
 - 2. GROUND WATER QUALITY ASSESSMENT PROGRAM
 - 3. FINAL SCHEDULE FOR CLOSURE
- L. USEPA COMPLAINT, COMPLIANCE ORDER, AND NOTICE OF OPPORTUNITY FOR HEARING, JANUARY 1982
- M. USEPA CONSENT AGREEMENT AND FINAL ORDER, MARCH 1982
- N. NJDEP/DWR ADMINISTRATIVE CONSENT ORDER(ACO), JULY 1983
- O. NJDEP/DWM NOTICE OF VIOLATION, AUGUST 1984
- P. NJDEP/DWM NOTICE OF VIOLATION, JULY 1986
- Q. NJDEP/DHWM NOTICE OF VIOLATION, NOVEMBER 1987
- R. AIR PERMIT FOR TRASH INCINERATOR
- S. (1-9) SAMPLING DATA FROM 1978 TO 1985
- T. USEPA EVALUATION AND SITE INSPECTION
- U. LAGOON SOIL, SLUDGE AND WATER SAMPLE ANALYSES FOR HAZARDOUS WASTE ENGINEERING REVIEW
- V. RFL LAGOON CLOSURE PLAN SUBMITTED BY GROUND/WATER TECHNOLOGY
- W. HAZARDOUS WASTE ENGINEERING FACILITY STATUS LETTER

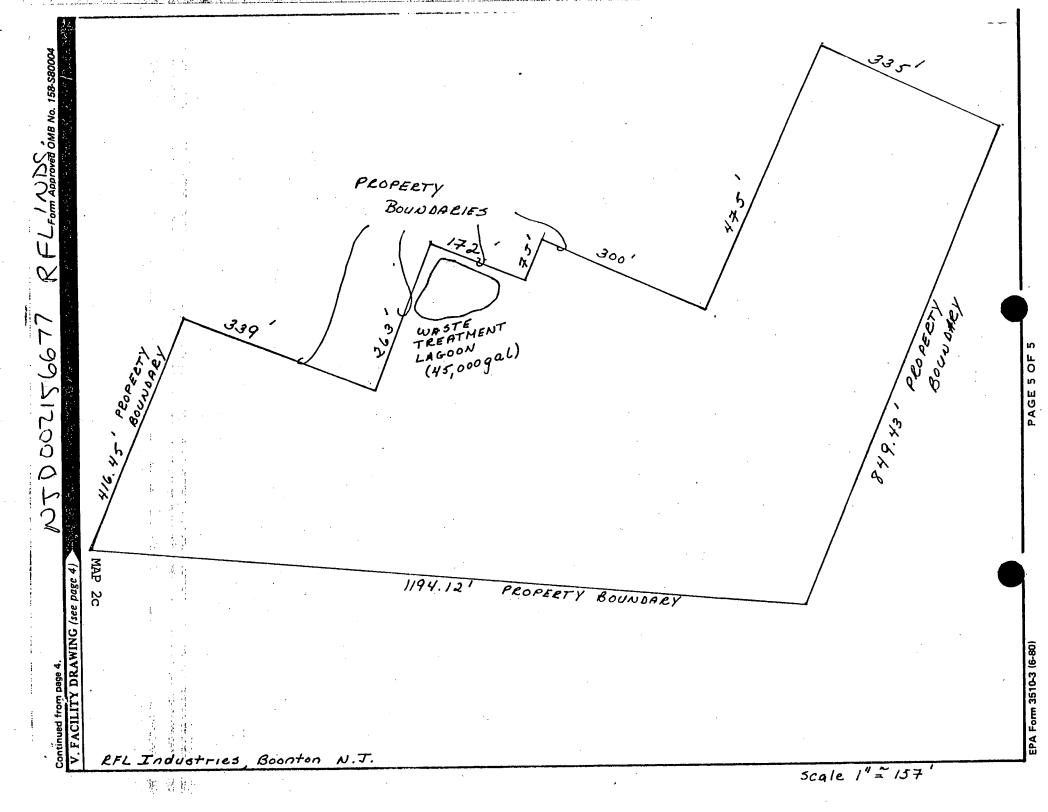
- X. NJDEP/DWR LAGOON CLOSURE CERTIFICATION APPROVAL
- Y. GROUND/WATER TECHNOLOGY LAGOON CERTIFICATION
- Z. HAZARDOUS WASTE MANIFESTS
- AA. RFL SITE CONTINGENCY PLAN
- BB. JRB ASSOCIATES DEVELOPMENT OF TECHNICAL ELEMENTS OF A NPDES PERMIT
- CC. LIST OF WASTES DEPOSITED IN LAGOON

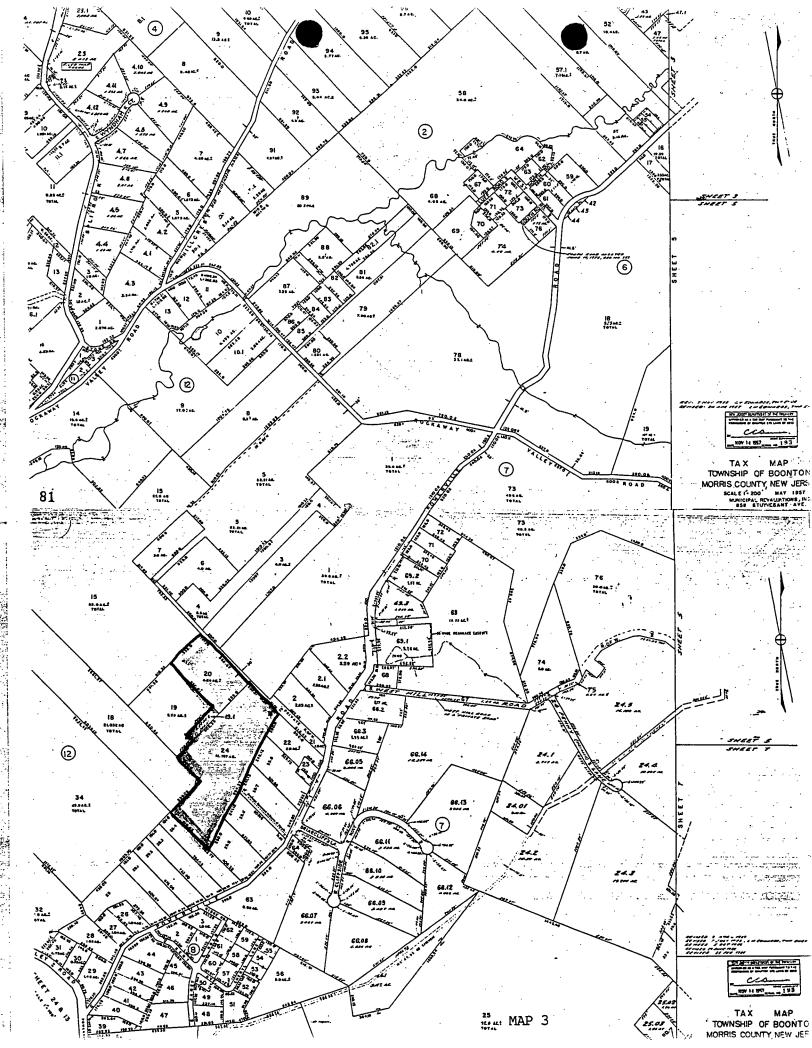


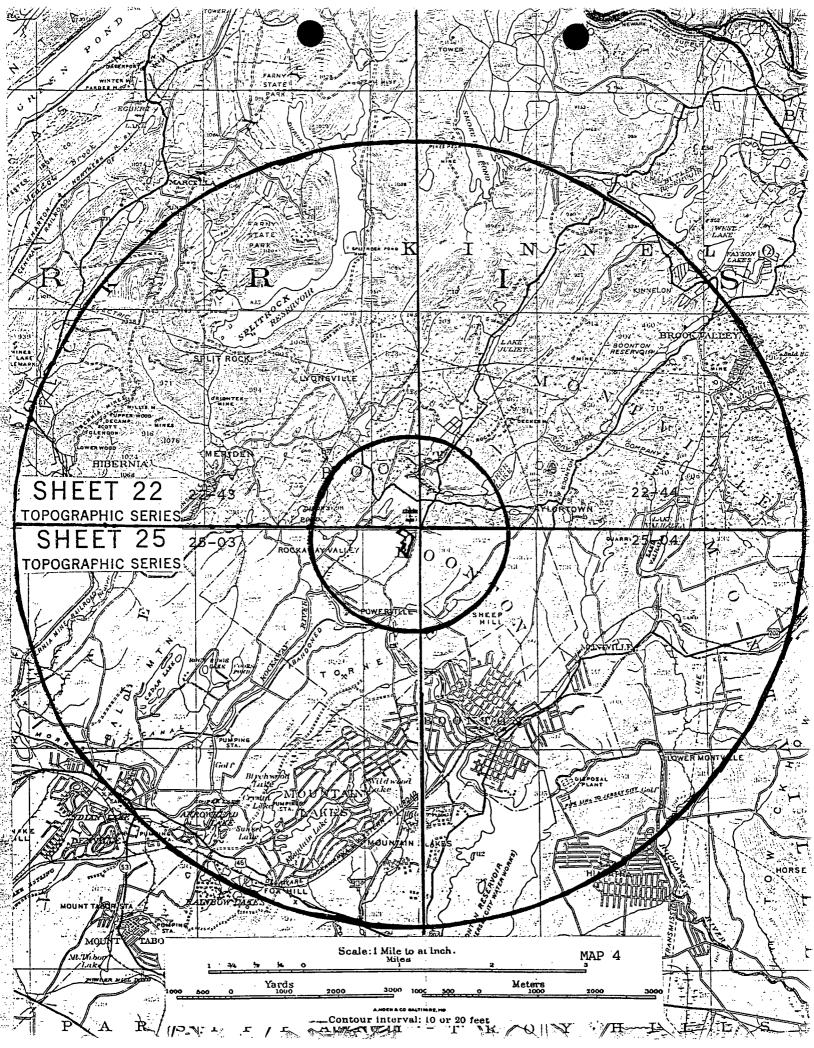
ATTACHMENT 1









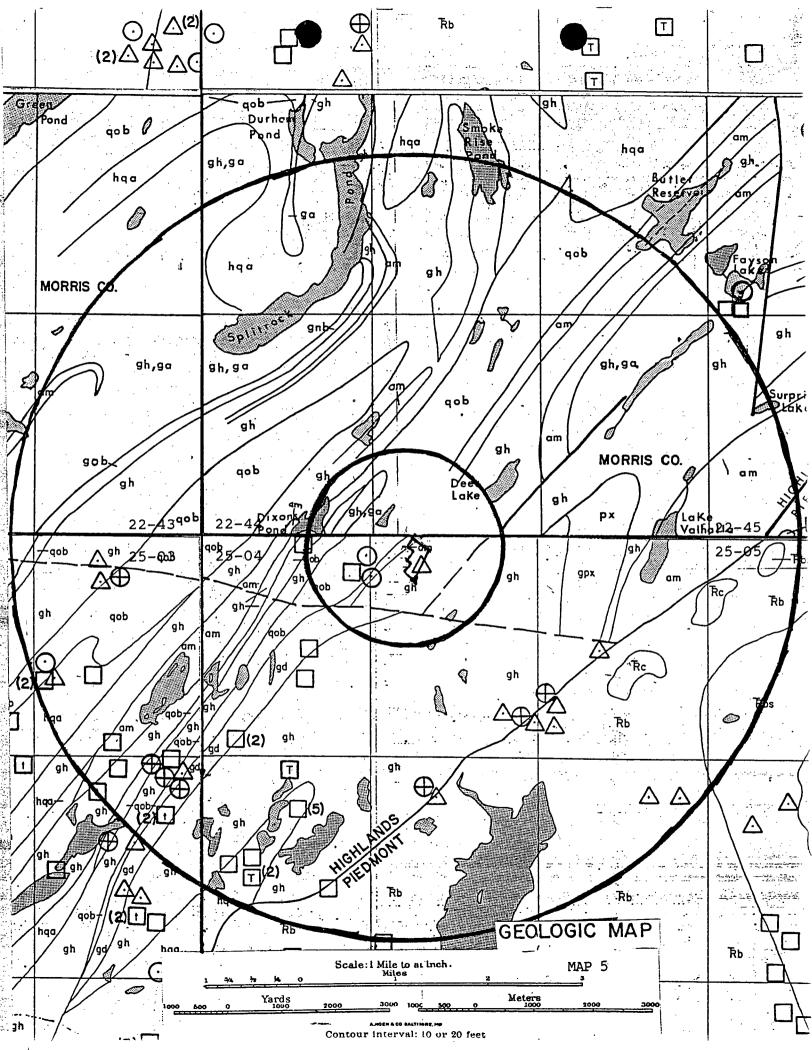


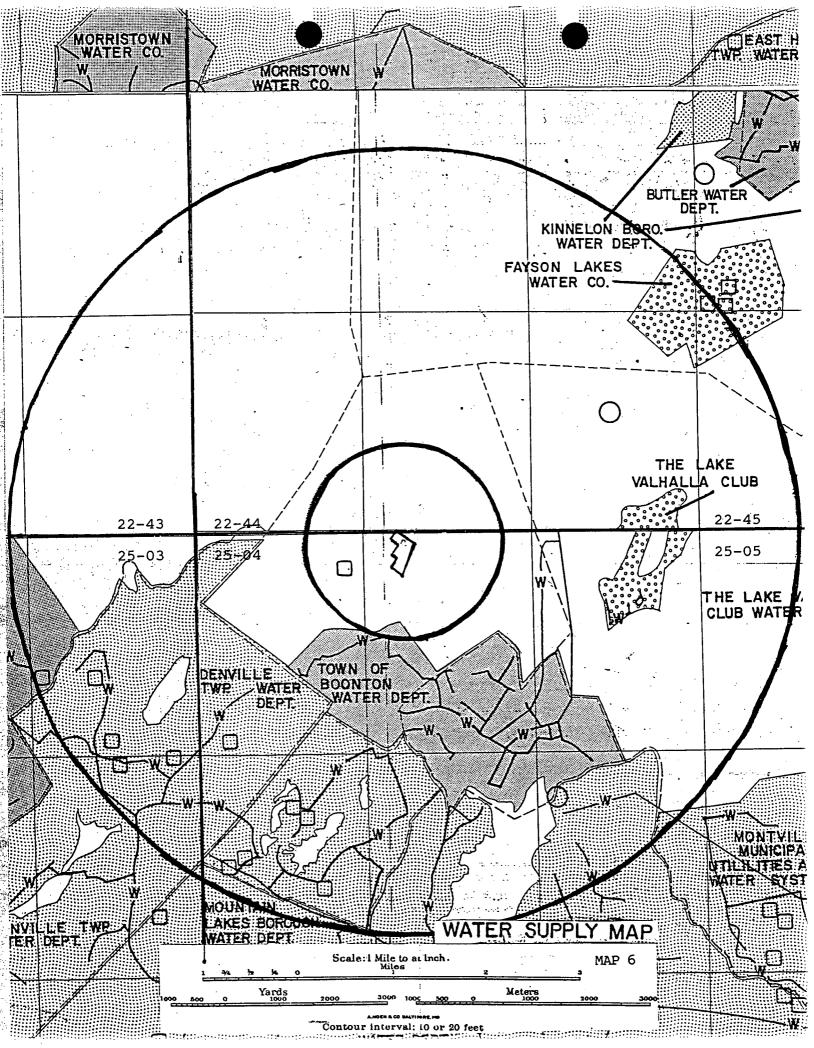
LEGEND FC ATLAS SHEET 22

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•	30000							
0a — STI	RATIFIED DRIFT (W	SCONSIN)		į .	•			
45								
·	TRIASSIC							
•	•			t			1	. •
	UNSWICK FORMATI	ON		!				
Trbs BA	SALT FLOWS						••	
•	DEVONIAN							
D.J. 014	UNNEMUNK CONGL	NEDATE	•					
	LLVALE SANDSTONE	•	SHALE			-	,	
-	NOUSE SANDSTONE							. :
	ONDAGA FORMATIC	i '			•		·	
	HOHARIE FORMATIO							
	SOPUS FORMATION							
	ENERIE FORMATIO	N	•	·			·	
Dpe PC	ORT EWEN FORMAT	ION		*	•	· 3		
	NISINK FORMATION							
Dns Ni	EW SCOTLAND FOR	MATION	•					**
Dkc K/	ALKBERG AND COE	MANS FORMALION					•	
~	CHURTAN	√li	.·		•			
A	SILURIAN	X .	•					
~	ANLIUS FORMATION	•	- · · · · · · · · · · · · · · · · · · ·				. regardens	ar e er e
	ONDOUT, DECKER FE	1					in the same	ا المحقود المارية المارية
	OSSARDVILLE FOR	•	 •	DECKED !	IMECTO	NE AND	LONGWO	 פתס
	IGH FALLS FORMAT	•						
Sag — S	HAWANGUNK CONGI	LOMERATE	Sgp	GREEN F	טאט כט	MOLUME	AMIE.	
	•	•					-	

POST ORDOVICIAN

ns	NEPHELITE SYENITE
bb —	BASIC VOLCANIC BRECIA
nt —	BASIC DIKES
	부담성하지 본다 음물을 다 하는 그는
	ORDOVICIAN
Omb —	MARTINSBURG SHALE —
Ojb —	JACKSONBURG LIMESTONE
	CAMBRO-ORDOVICIAN
€Ok-	KITTATINNY LIMESTONE
	CAMBRIAN -
	HADDWITCH CANDETONE
€h —	HARDYSTON SANDSTONE
	DOCCAMBRIAN
	PRECAMBRIAN
gh	HORNBLENDE GRANITE AND GNEISS
	ALASKITE
	SYENITE
•	GRANODIORITE GNEISS
54 - 45 M Mari	PYROXENE SYENITE
	MARBLE AND SKARN
am —	AMPHIBOLITE
	HORNBLENDE AND BIOTITE GNEISS
	PYROXENE GNEISS
hqa —	HYPERSTHENE-QUARTZ-ANDESINE GNEISS
48 —	SILLIMANITE GNEISS
	MICROCLINE GNEISS
qo —	QUARTZ-OLIGOCLASE GNEISS QUARTZ-OLIGOCLASE-BIOTITE GNEISS
anb —	- BIOTITE - QUARTZ - FELDSPAR GNEISS
建筑设施设置	





- A. Boonton, Dover
- B. Delaware River-Musconetcong; Passaic-Pequannock, Rockaway
- C. Water Quality Standards: (explained in Atlas Sheet description) FW2
- D. Kanouse Sandstone (Dkn), Marcellus Formation (Dm), High Falls Formation (Shf), Decker Limestone and Longwood Shale (Sd), Green Pond Conglomerate (Sgp), hornblende granite and gneiss (gh), alaskite (ga), syenite (gs), amphibolite (am), pyroxene gneiss (gpx), hypersthene-quartz-andesine gneiss (hqa), quartz-oligoclase-biotite gneiss (qob)
- E. 1. Physiographic Province: New England (Reading Prong)
 Subdivision: N.J. Highlands
 Major Topographic Features: Central Highland Plateau, German-Longwood
 Valley, Passaic Range
 Elevations (ft.above sea level): ridges 1250, valleys 700
 Relief (ft.): 550
 - 2. a. Normal Year: 50"
 Dry Year: 38"
 Wet Year: 71"
 - b. January: 28°F July: 72°F
 - c. 230 days. Last killing frost: 5/15; first killing frost: 10/20
 - 3. Land Use Map available
- F. Div. of Parks and Forestry:
 Farny State Park
 Municipal Watersheds:
 Split Rock Pond
 Longwood Lake
- G. U.S. Army Picatinny Arsenal

I. Water Well Records

	•	* •		Setting		
	· · · · · · · · · · · · · · · · · · ·	*	Year	or Depth	Total	g/m
Location	Owner		Drilled	of Casing	Depth	Yield Formation
22-43-448	Picatinny Arsenal	•			82	400 Q
22-43-472	11	•		•	108	690 6 h
22-43-473	11		* 4		79	400 Q

Screen

J. Geodetic Control Survey monuments described in Index Maps 13,14; adjacent Index Map 8

- A. Boonton, Pompton Plains
- B. Passaic-Pequannock, Pompton, Rockaway
- C. 1. Split Rock Pond Non-recording precipitation gauge
 - 2. Map No. Location Period of Record
 14 Beaver Brook at outlet of Split Rock Reservoir 1926-1946

Water Quality Standards: (explained in Atlas Sheet description) FW2

- D. Brunswick Formation (Trb), Basalt Flows (Trbs), hornblende granite and gneiss (gh), alaskite (ga), amphibolite (am), hypersthene-quartz-endesine gneiss (hqa), quartz-oligoclase-biotite gneiss (qob), biotite-quartz-feldspar gneiss (qnb)
- E. 1. Physiographic Province: New England (Reading Prong)
 Subdivision: N.J. Highlands
 Major Topographic Features: Passaic Range
 Elevations (ft.above sea level): ridges 1100, valleys 600
 Relief (ft.): 500

Physiographic Province: Piedmont Subdivision: Friassic Lowlands Major Topographic Features: Red Sandstone Plain Elevations (ft.above sea level): valleys 600

- 2. a. Normal Year: 47"
 Dry Year: 37"
 Wet Year: 66"
 - b. January: 29°F July: 72°F
 - c. 235 days. Last killing frost: 5/10; first killing frost: 10/20
- 3. Land Use Map available
- F. Div. of Parks and Forestry:
 Farny State Park
 Morris County:
 Silas Condict Park
 Municipal Watersheds:
 Split Rock Pond
 Butler Borough
 Boonton Borough
 Pequannock

I. Water Well Records

			Screen			•
	.		Setting		•	
	;	Year	or Depth	Total	g/m	
Location	Owner	Drilled	of Casing	Depth	Yield	Formation
22-45-126	Christian Recreation Assn.	1965	82	223	45	pG
22-45-178	Fayson Lakes	1965	48'5"	90	271	Q
22-45-178	"	1965	88'7"	120	0	11
22-45-178	· · · · · · · · · · · · · · · · · · ·	· 1958	26'5-1/2"	50	435	H ·
22-45-468	Hartley Farm	•		582	5 .	p€
22-45-489	Montville Twp.M.U.A.	1974	203-243	243	771	Qsd
22-45-495	Kretschmer, Robert	1969	26	310	100	рG

J. Geodetic Control Survey monuments described in Index Map 14; adjacent Index Maps 8,9,13

- A. Boonton, Dover, Mendham, Horristown
- B. Passaic-Rockaway, Whippany
- C. 3. Map No. Location Period of Record 256 Rockaway River at Dover (Rutgers St.) 1964

Water Quality Standards: (explained in Atlas Sheet descriptions) FW2

- D. Brunswick Formation (Trb), hornblende granite with pyroxene granite (gh), quartz-plagioclase gneiss (gnq), pyroxene gneiss (px), amphibolite (am), biotite-quartz-feldspar gneiss (qnb)
- E. 1. Physiographic Province: New England (Reading Prong)
 Subdivision: N.J. Highlands
 Major Topographic Features: Wisconsin Terminal Moraine, Rockaway River
 Valley, Green Pond Mountain
 Elevations (ft.above sea level): ridges 1000; valleys 400
 Relief (ft.): 600
 - 2. a. Normal Year: 50"

 Dry Year: 36"

 Wet Year: 68"
 - b. January: 28°F July: 7/2°F
 - c. 233 days. Last killing frost: 4/5; first killing frost: 10/15
 - a. Approximately 15% urban or suburban. Municipalities: Denville, Dover, Parsippany-Troy Hills, Randolph, and Rockaway
 - b. Dairying predominant. Poultry, corn, oats, and vegetables
 - c. Less than 10%. Oak predominant
 - d. Chemical, electrical, machinery, rubber, plastics, apparel, and paper
 - e. Sand and gravel. Magnetite iron ore has historically been important. Major inactive mines include: Teabo Mines (25-03-129), Mt.Hope Mine (25-03-133), Allen Mines (25-03-143), White Meadow Mines (25-03-234), Beach Glen Mine (25-03-321), Swedes Mine (25-03-438), Munson Mine (25-03-476)
 - f. I-80, U.S.46, U.S.202, N.J.53, N.J.10; Erie R.R.; Morris Canal (abandoned)
- F. Jersey City:

 Municipal Watershed

 Morris County:

 James Andrew Memorial Park
- G. Picatinny Arsenal, U.S. Army

I.	Water	Well	Recd	rds

	· ·		percen		•	
	į	••	Setting			
T = = = + + + -		Year	or Depth	Total	g/m	
Location	Owner	<u>Drilled</u>	of Casing		<u>Yield</u>	Formation
25-03-241				300	0	P€
25-03-246				88	0	II .
25-03-295	Boro of Rockaway	1974	78-93	93	455	Qtm
25-03-297	**	1962	63	82	517	рx
25-03-325	Boonton Radio Corp.	1960	70	98	0	gng
6 25-03-321		1 960	92-95	105	108	gh
25-03-324		1960	93'10"	125	548	TT .
25-03-347	Rockaway Twp.	1965		35	0	gng
25-03-347		1967		163'2"	548	TH T
25-03-347		•		153	300	Q
25-03-347			*	196	75	PG
• 25-03-357				147	1225	Q .
25-03-388	<u> </u>	1958	20	96	500	px
25-03-417		1963	11	53	300	11
23-03-445		1957	11'10"	70	400	gh
23-03-445				97	144-	Q .
25-03-453		1960	79'11"	85		gnb
25-03-455	11	1960	115'6"	130'6"	383	11
25-03-461	11	1962	120	138	1455	gh
25-03-461	"	1962	126	150	566	11
25-03-523	Boro of Rockaway			72	210	Q · · ·
25-03-525	H .			140	-800	ıi
25-03-525	· · · · · · · · · · · · · · · · · · ·	1961	103	139	500	рх
25-03-526	"	1956		51		TI TI
25-03-529		1956	57	400	27	H
25-03-533	Boro of Rockaway	1955	70	81	50	11
25-03-545	Austernal Milrocast			400	27	PG
25-03-545	II .			136	221	Q
25-03-547	Austenal Laboratories	1954	40	50	400	рх
25-03-552	Radio Corp. of America	1956	63	543	219	Ti
● 25-03-621	Denville;	1961	178	201	1018	gh
●25-03-622	Denville Twp.	1975	145-165	212	235	Qsd
25-03-624	Boro of Denville			205		Q
● 25-03-631	Denville Twp.	1975	168	180	0	P6
● 25-03-632	"	1975	138	140	Ŏ	ii
● 25-03-632	St.Francis Sanatorium			126	75	n
25-03-632	H. Beherns			202	0	Q-PG
25-03-632	Crane, A.D. Co.			202	Ö	Ti Ti
25-03-638	Boro of Denville	•		102		Q
25-03-638	11	*.		85	• • •	ที
25-03-645	Twp. of Denville	1967	48	72		ah .
25-03-652	Crane, A.D. Co.			207	20	gh P6
25-03-653				202	90	Q
25-03-659	N.J. Power & Light	1955	56'5"	75	225	
25-03-659		1959	78	87	78	gh "
25-03-683		1960	. 70	97	. 10	
25-03-683		1700		125	angradi andah Marang <u>i</u> (M	0
25-03-691	Parsippany-Troy Hills, Twp. of		•	36	75	W to the section of
25-03-697	Internat1.Pipe & Ceramics	~ .		J 0	13	A property of the second
	Corp.			190	O	11
				180		• .

Screen

25-03-937	Parsippany-Troy Hills, Twp.of			150	195	0-Pe	
25-03-937	11			195	263	11	
25-03-937	11			150	402	11,	
25-03-965	Warner Chilcott Laboratories	1957		143	402	n v	
25-03-966	11	1957		146		px	
25-03-983	n .			97	0	Q -	•
25-03-986	Maltine Co.			174	130	H.	
25-03-986	<u> </u>			135	115	. 11	
25-03-992	Warner Chilcott Labs			75	500	11 -	
25-03-992	: 11	1957	58	102	500	рx	
25-03-994	Warner Lambert Pharmaceutical	1960	87 2"	107'2"	518	n n	
25-03-994	Maltine Co.			130	70	Q	
25-03-994	Warner Chilcott Labs		:	70	850	ii	
25-03-995	n ·	1957	76	108	1000	рx	
25-03-996	Chilcott Laboratories, Inc.	1954	100	100		11	
25-03-996	Warner Chilcott Labs		•	93	0	Q	

J. Geodetic Control Survey monuments described Index Maps 13,14,19,26

- A. Boonton, Caldwell, Morristown, Pompton Plains
- B. Passaic-Pompton, Rockaway, Upper Passaic, Whippany
- C. 1. Boonton Non-recording temperature and precipitation gauges

2.	Map No.	•	Loc	cation				Period of Re	cord
	15	Rockaway	River	above	Reservoir	at	Boonton	1937-	
	16	Rockaway	River	below	Reservoir	at	Boonton	1903-1904, 1	906-

3. 257 Rockaway River at Boonton (Rt.202) 1964-259 Whippany River at Rockaway Neck 1965-269 Rockaway River at Parsippany-Troy Hills (Rt.46) 1968-

Water Quality Standards: (explained in Atlas Sheet description) FW2

- D. Brunswick Formation (Trb), Triassic Conglomerates (Trc), Basalt Flows (Trbs), diabase (Trdb), biotite-quartz-feldspar gneiss (qnb), hornblende granite with pyroxene granite (gh), quartz-plagioclase gneiss (gng), pyroxene gneiss (px)
- E. 1. Physiographic Province: New England (Reading Prong)
 Subdivision: N.J. Highlands
 Major Topographic Features: Passaic Range
 Elevations (ft.above sea level): ridges 850, valleys 150
 Relief (ft.): 700
 - 2. a. Normal Year: 47"
 Dry Year: 34"
 Wet Year: 61"
 - b. January: 29°F July: 72°F
 - c. 235 days. Last killing frost: 5/5; first killing frost: 10/5
- F. Div. of Parks and Forestry:
 Great Piece Meadows
 Troy Meadows Natural Area
 Essex County:
 West Essex Park
 Morris County:
 Tourne Park
 Boonton Reservoir:
 Municipal Watershed
- H. Doremus House, Towaco

I. Water Well Records

			Screen			•	
			Setting				
		Year	or Depth	Total	g/m		
Location	Owner	Drilled	of Casing	Depth	Yield	Format	cion
• 25-04-12 3	Montville Twp. M.U.A.	1973	249	252	120	Qsd	
• 25-04-133	Town of Boonton			12	0	Q	
• 25-04-136	11			113	100	ที	
25-04-136				64	0	11	
25-04-156	Town of Boonton (Well point			0 +	•		
23-04-130	System)	1964		55	600	Qsđ	
25-04-159	Town of Boonton	1958	75	100	300	11	
• 25-04-178	Boro of Mountain Lakes	1930	75	50	200	Q	
25-04-178 25-04-178	11	•		58	232	"	
• 25-04-216	Air Craft Radio Corp.	1955	65	80	150	Qsd	
•		T377	0.5	305	190	Q	
• 25-04-295 25-04-295	Drew, E.F. & Co.			110	100	11	
• 25-04-296	* 11			402	100	:1	
• 25-04-296		1970	67	252	75	PG	•
25-04-354	S.B. Penick & Co.	1970	67			11	•
• 25-04-371	Drew, E.F. & Co.			313	235	- 11 -	
• 25-04-371	11 1			505	25_	11	
• 25-04-374				416	13		
25-04-422	Boro of Mountain Lakes			186	-	ó-be	٠
• 25-04-429	Hillcrest Water Co.	•		469	140	P C	
25-04-429	11	-		422	85		
25-04-429	Boro of Mountain Lakes			- 58	589	Q "	
25-04-429	11			.60	500	11	
25-04-429	tf .			60	500		
25-04-445	11 1	1969	260	333	1200	Qsd	
25-04-446	!!	1966	300	345	437	**	
25-04-446	11		•	257	- ,	Q	
25-04-446	11 .			137	- ·	11	
25-04-467	u !	1964	61	207	128	PE	
25-04-489	International Pipe & Ceramics	1963	141	160	831	Qsd	
25-04-489	U.S.G.S.			80	– į	Q ·	•
25-04-489	11		•	81	-	11	
25-04-497	International Pipe & Ceramics	1963	161	200	350	Osd	
25-04-524	Norda Essential Oil & Chem.Co	•		822	38	PE	
• 25-04-524	11		• •	385	220	11	
25-04-574	Parsippany-Troy Hills, Twp. of		•	179	100	Q ·	·
25-04-578	11	1958	105	138	600	Qsd	
25-04-587	Howard Commence		4 to 1 to 2	82	500	Q	
25-04-587	n			150	150	n n	
25-04-596	11		• • • • • • • • • • • • • • • • • • • •	85	<u>-</u>	17	
25-04-598	ii e	1973	60-85	96	1100	Qsd	
● 25-04-626	Knoll Golf Club		00 00	240	90	Trb	
• 25-04-635	Charles Ackerman (for school)	1953	43	100	70	PG	
25-04-674	Twp.of Parsippany-Troy Hills		. 73	107	_	Q	
25-04-677	rabeor rerethbaria-rrol mirre			80	1000	11	
	Control of the management of the Control			169	1000	Trb	
25-04-723		•	and the second of the second	210	100	Q	مان و شاعرت داری و شاعد
25-04-771	Lwewellen Farms Restaurant		and the state of t	210	· · · · · · · · · · · · · · · · · · ·	_ ∀	dati esta
25-04-785	Parsippany-Troy Hills Water	1075	114-134	172	620	Qsd	
25 0/ 705	Dept.	1975 1974	89-109	112	453	u ysa 11	
25-04-785	TT .	1974				ጥሔዬ	
25-04-793		1964	66	75	0	Trb	

	•					
25-04-796	U.S.G.S.	1965		89	255	Trb
25-04-798	11	1966		84	500	11
25-04-813	Leeming Pacquin	1967	65	80	430	Qsd
25-04-815	Parsippany-Troy Hills	1966	70	100	525	11
25-04-847	U.S.G.S.			79	-	Q
25-04-851	Twp.of Parsippany-Troy Hills			92		11
25-04-851	n i	1958.	55	65	715	Qsd
25-04-854	Sunran Corp.	1957	75	95	100	11
25-04-854	**	1957	52	81	300	11
25-04-951	Twp.of Parsippany-Troy Hills	1966	36	47	835	67
25-04-952	U.S.G.S.	1966	-	213	272	**
25-04-954	Rowe Manufacturing Co.	1955	74	86	400	11,
25-04-957	Twp.of Parsippany-Troy Hills	1965	55	80	530	11
25-04-976	U.S.G.S,		•	52		Q
25-04-979	"			64	-	11
25-04-991	n l			109	,-	11
25-05-419	Montville Mun.Utilities	1966	19	293	106	Trb
25-05-425	John Pellock	1971	20	170	?	11
25-05-432	Forest Wood Const. Co.	1965	30	275	159	11
25-05-469	U.S.G.S.		_	173		Q
25-05-481	Montville Mun. Util.	1966	55	210	70	Trb .
25-05-485	Pine Brook Water Co.	1956	15	300	190	11
25-05-487	Montville Mun. Util.	1966	34	176	87	11
25-05-725	Twp.of Parsippany-Troy Hills	1956	54	90	350	Qsd
25-05-725	II .			70	900	Q
25-05-739	O'Dowd Dairies			530	77	Q-Trb
25-05-776	Twp. of East Hanover	1966	118	285	440	Trb
	· · · · · · · · · · · · · · · · · · ·					

J. Geodetic Control Survey monuments described Index Maps 14,20; adjacent Index Maps 13,19

· WELLS WITHIN A 4 MILE RADIUS OF THE SITE

WATER WITHDRAWAL POINTS AND NJGS CASE INDEX SITES WITHIN 5.0 MILES OF:

LATITUDE 405553 LONGITUDE 742535

DRAFT

SCALE: 1:63,360 (1 Inch = 1 Mile)

× WATER WITHDRAWAL POINTS

NUGS CASE INDEX SITES

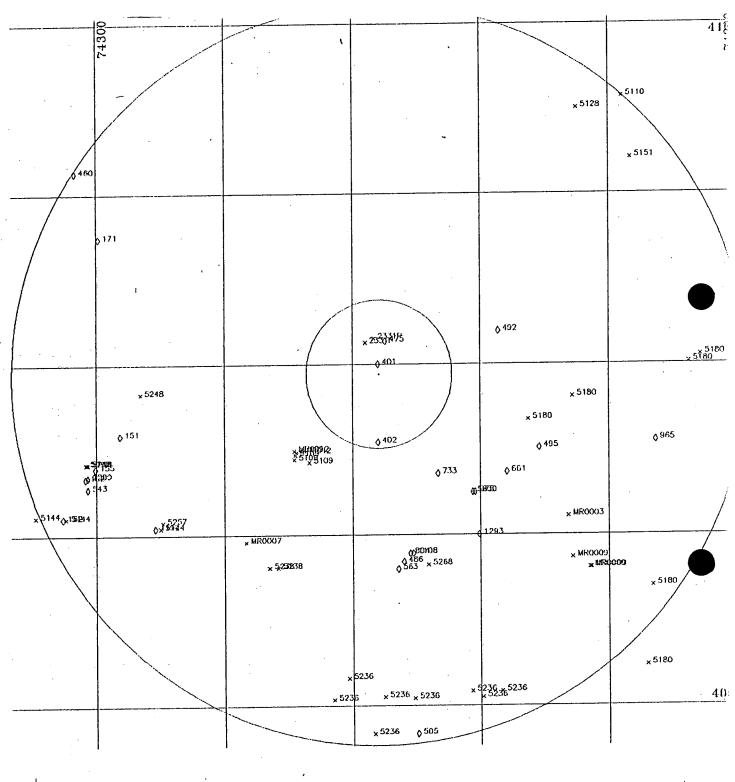
MILE AND 5 MILE RADII INDICATED

NJGS CASE INDEX DATA RETRIEVED FROM: NEW JERSEY GEOLOGICAL SURVEY ON 12/22/87

PLOT PRODUCED BY:
NJDEP
DIVISION OF WATER RESOURCES
BUREAU OF WATER ALLOCATION
CN-029
TRENTON, NJ 08625
DATE: 12/16/89

SUBJECT TO REVISION

REL



MAP

Page	A OF NUES CASE INCEY SITES WITHIN 5.0 MILES OF 405853 LAT. 142535 LON.	AS OF 1	2/22/87	(IN ORDER BY DEED	SASINO LOF	BITUDE) -	· 12/16/69	
SITEMM	NGME.	LAT		pisiance · contan				
	ROTKAWAY BOROUGH MUNICIPAL WELL(S), MORRIS CO.	405412	743031	4.7 05	120	130	1	1
1.5/2	RADIATION TECHNOLOGY. ROCKAWAY, MORPIS CO. SHELL G.S., ROCKAWAY, MORRIS CO. TOWE & COUNTRY GAS STATION, ROCKAWAY TWP. MORPIS CO.	405815	743020	5.0 00	0120	9000	1	E
450	HADIATION ICCOMPANIAN MICHIEL OF THE COMPANIAN AND COMPANI	405440	743010		130	144	2	
132	TO BE S CONTINUED OF STATION FOR MAIN THE MIRES CO.	4005441	743008	4.2 51	144	130	1	
239	CAPPEN CIATE TEAMERT EXTENSIVE THE MERRIS I'M.	405433	743008	4.3 1	0130	9000	1	
543	ENAMED OFFICE PROPERTY OF THE	405441	743008	4.2.00	0120	3070	1	
1277	POPULATION OF LETT FIRST MIGRIE TO	405447	743001	4.1 GC	130	7000	1	E
155	TOWE & COUNTRY GAS STATION, ROCKAWAY TWP., MCMRIS CO. GARDEN STATE TRANSIT, ROCKAWAY TWP., MCMRIS CO. CORROLLIDATED CHEMICALS, DENVILLE, MCPRIS CO. ROCKAWAY TWP. WELL FIELD, MCRRIS CO. LAYE TELEPARK BULF, ROCKAWAY TOWNEYIP. MCRRIS CO. TEER JONES MARK ROCKAWAY, MERRIS CO.	405729	742958	4.3 51	9011	9080	2	J
171	JERRY JONES MACK, ROCKAWAY, MOERIS CO.	405510	742938	3.6 1	130	O	1	
1	DEREN PETETBENCE DENTILLE MESTS CO.	405405	742905	3.7 53			3	
1192	AIRCRAFT RADIO CORF. (ARC)-CEBSNA COMPANY, ECONTON TWP., FORRIS COS C	405600	742535	$O_{a}1 = 1$	130	O	9	
400	TARREST AND A STATE OF THE PROPERTY OF THE PRO	44 Pm - 9 Pm	7.44.77 L.Y.	0.9 1	. 130	O	9	
402 - 4 475 -	TO AND PRODUCT CONTROL THE MODEL OF CO.	405616	· 742527	0.4 1	130	0	9	
553	RADIO FREEDERLY LAB. (19-1) INC., BOUNTON TWP. MORRIS CO. SYNTHATRON CORP., PARSIFFANY TROY HILLS TWP., MORRIS CO. NORDA, PARSIFFANY TROY HILLS, MORRIS CO.	405336	742517	2.6 00	130	3070	1	
	NEWS CAPATERAN TRAVERS MICHEL	405341	742512	2.5 1	130	3070	1	
486					0129	O	1	13
QUM (CONTROL CON INCOME ON	405547	742503	2.5 70	0130	9000	1	E
1.108 505	POTATION DISCUSSION FARSTEPANY, MERCIS (3)	405140	742459	4.9 00	130	30 7 0	1	<u> </u>
73 3	PRINCIPAL DESIGNATION MARKETS (1).	405443	742440	1.6 55	9020	O	1.	E.
583	EVIC FRECISION PRODUCTS, INC. MULNIAN LABER SCATTO CO. BOONTON ELECTRONICS, FARSIFFANY, MOPERS CO.; FEPE FIELD, BOONTON, MORRIS CO. DREW CHEMICAL, BOONTON, MORRIS CO. DREW CHEMICAL, BOONTON, MORRIS CO.	405430	742407	2.0 35	9020	3070	63	
1230	DREW CHEMICAL, BOOMTON, MORRIS CO.	405430	742407	2.0 00	7000		1	0
575	the same of the sa	405430	742405	2.1 00	0110	QQQQ	1	
1 575 . ************************************	CONTROL LIGHT COLUMN DOCUMENT MODERN CO.	405400	742401	2.6 63	0100	0000	F-	C
1293	MARKET AND SCHOOLS CONTROLS MANUALITY TOS. STEELS (1).	405623	742343	1.7 00	130	, 9071	1.	E
492	TOPROTTE CONTROL OF THE CONTROL PRESENT OF CONTROL OF C	405444	742335	2.2 35	120	9020	1	
éé.	CONTROL CONTROL AND A CAMBINATION OF THE CONTROL OF	405501	742305	2.4 34	110	3070	O	
495 945	U.S. GYPSUM CO. INC., BOONTON, MORRIS CO. PENICK CORP., MONTVILLE, MORRIS CO. TOWACO SENOCO, MINTVILLE, MORRIS CO.	405504	742117	3.9 0	0	Ö	3	
	4							

Plumber of Observations: 27

Face I of NAMES CASE INDEX SITES WITHIN 5.0 MILES	OF 405553 LAT. 742535 LON. AS OF 1	2 /22/87	(IN ORDER	BY SILE	Marketon -	- 12/10/ES	r	
SITERUM	LAT		DISTANCE					STATUSI
	405510	77.4(2.5750)	- 3.6	1	130	0	1	
151 JEFRY JONES MACK, ROCKAWAY, MORRIS CO.	405440	743010	4.2		130	144	773 A-14	
152 SHELL S.S., ROCKAWAY. MORRIS CO.			4.1		130	9000	1	<u></u>
155 FOCKAWAY TWP. WELL FIELD, MORRIS CO.	405447	743001 mass/74			120	130	1	r::
155 FOCKAWAY TWP. WELL FIELD, MISTATS CO. 152 FOCKAWAY ECROLEH MINICIPAL WELL(S), MISTATS 171 LAVE TELEMARK BLLF, ROCKAWAY TOWNSHIP, MIST	(0). 495412	743031	4.3. 4.3.		9011	9060	ż	.T
171 LAKE TELEMARK GLLF, ROCKAWAY TOWNGHIP, MUSI	RIS CO. 495/27	742708	4.34		144	130	1	
CONTRACT P. COLUMN CAS STATION, BUILDING THE	Mark In Chin	1 Marchalant			130	0	9	
JOHN ATECEMET EMAIO CORP. (ARC)-CESSIVA COMPNIA.	ALBERTAN DOT PRINTED LAND L. MARROY	742536	0.1			Ŏ	ģ	
402 RADIO FRECLENCY LAB. (RFL) INC., BOUNTON THE	F., MERRIS CO. 405505	742536	0.9		130	9000	4	<u>g</u>
450 RADIATION TECHNOLOGY, POEKGRAY, MORFIE CO.	40000 to	743020	5.0		0120	7000	· · · · · · · · · · · · · · · · · · ·	
## ## ## ## ## ## ## ## ## ## ## ## ##	405416	742529	0.4		130	3070	7 1	
486 MOFINA, PARSIFFANY TROY HILLS, MOFFRIS CO.	405341	742512	2.5		130		.i. 1	<u>-</u>
492 MAROTTA SCIENTIFIC CONTROLS, MENTVILLE THE	MIKRIS CC. 405623	742343	1.7		130	9091	-	i
495 FENICK CURP., MONTVILLE, MURRIS CO.	403501	742305	2.4		110	3070	0	*
505 BOOTON ELECTRONICS, PARSIPPANY, MORRIS CO	405140	742459	4.9		130	3070	l	Ţ
545 GANDEN STATE TRANSIT, ROCKAWAY TUP., MORRE 563 SYNDHATEON DOWN., PARSIPPANY TROY HILLS TW	8 (3). 405433	743008	4.3		0130	9000	1	
543 GARCEN STATE TRANSIT, RECKANOT THE A PLANTA TO	- MEGGIS CO. 405336	742517	2.6		130	3070	1.	
563 (SYNTHATEON COMP., PARSIFFENY TRUE TRUE OF	TR. MORRIS CO. 405430	742405	# .1.		0110	0000	1	
575 PACIFIC VERETABLE OIL (PVD), BARRIER LUSSES	405430.	742407	2.0	35	9020	3070	9	
563 SYNHATRON CONT. PASIFFER: NOT HELLS IN 575 PACIFIC VEGETABLE OIL (PVO). ECONTON TOWARD 563 DEEM CHEMICAL, BOONTON, MORRIS CO. 461 U.S. GYPSUM CO. INC., BOONTON, MORRIS CO. 733 PEFE FIELD, BOONTON, MORRIS CO.	405444	742335	2.2	35	120	9020	1	
A61 U.S. GYPSIM CO. INC., EUNIUM, MITTER CU.	405443	742440	1.6	SE	9020	O	1	ka.
733 PEPE FIELD, ROONTON, MORRIS CO.	a wropin on. 405347			$\bigcirc\bigcirc$	0120	0	1	Θ
BOA EVOO FEBOISION PRODUCTS. INC. PRODUCTS OF	405306	742117	3.9	0	O	O	3	
745 TOWOO SLADOO, MINTVILLE, MURRIS CU.	405347	742503	2.5	70	0130	909)	1.	gardin Gard Barran
1168 REPORTON COAL GAS, MORRIS CU.	405405						3	
1172 KLKYN RESILENCE, DENVILLE, PLYCLE CU.	405430	742407		00	9000		1	C
1280 DREW CHEMICAL, POINTON, MURRIS LU.	20 75 400	742401		63	0100	0000	£.	C
733 MEPE FIELD, BOONTON, MORRIS CD. 904 LYMO FRECISION PROCUCTS, INC. MOUNTAIN LAKE 745 TOWOOD SUNDOO, MINÍVILLE, MORRIS CD. 1108 ROCHTON CON. GAS, MORRIS CD. 1172 KUKAN RESIDENCE, DENVILLE, MORRIS CD. 1270 DREW CHEMICAL, EDONTON, MORRIS CD. 1273 BOONTON HIGH SCHOOL, BOONTON, MORRIS CD. 1275 CONSOLIDATED CHEMICALS, DENVILLE, MORRIS CD.	405441	7430CB		00 -	.0120	3070	1	

Mumber of Observations: 27

esida - 1. Ot paraminada lemona et san													
K.1731v#***	EGRCEID	LOCIE	LAT	LON	LL/YČC	DISTANCE	COUNTY	HLDI	DEFTH	SEC1	GEOZ	CAFYACITY	(
PLYSER NOVE	Secretary Street Security Secretary												
and the same of th	2510403	5	405413	743056	(3)	5.1	27	35	92	EUSD		517	
5144 FOOKAWAY BOROLEH WATER DEFT.	2518231	6		743028	S	4.7	27	35	83	GOSD		800	
5144 ROCKAWAY BOROLDH WATER DEFT.		7		743010		4.2	27	35	155	GO(SD)		830	
5248 ROCKAWAY TOWNSHIP WATER DEPT.	2515764				F	4.2	27	35	-153	GOSD		450	
5248 - ROCKAWAY TOWNSHIP WATER DEPT.	2514324	65 1		743008		4,2	27	35	150	GOSD		175	
5249 SCICKAWAY TOWNSHIP WATER DEPT.	4500037	4		742919 742919		3.3	27 -	35	125	COSD		535	
5248 ROCKAWAY TOWNSHIP WATER DEPT.	2509826	1.				3.6	27	35	50	easo		525	
5144 ROCKAMAY BOROLIGH WATER DEFT.	45CO348	1		742900				08	146	GOTM		450	
5257 - DENVILLE TOWNSHIP WATER DEPT.	4500324	1		742858	U	3.6	27		116	GOTM		550	
5257 DEWILLE TOWNSHIP WATER DEPT.	25005142	4.		741E18		3.6	27	C8	2.20	SERCO		750	
MECODO7 TOLENE VALLEY FARM	ROCKAWAY RIVER	STREAM I		742740	i	2.9	27	90	a c ÷r	GOSD		300	
5238 C MOUNTAIN LAKES BOROUGH	4500302	4 TOWER H		742718		3.0	27	25	463			1000	
SEES MILNIAIN LAYES RECLEH	2514478	5	405337			3.0		25	333	GUSD			
	4500300	77* ****	405337	742710	U ·	2.9	227		64	ECED		400	
	4500304	4 TOWPATH	405337	74.2710	IJ	2.9	27	7.22	64	GOSD		4(X)	
SCIRE MOUNTAIN LAKES ECROLOH	4500295			742435		1.6	27	01	39	Θ		350	
SLOY BOONTON, TOWN OF	FOCKAWAY RIVER			742455	F	1.6	27	Οi	20	SPROC	GFOEN	90	
MEXXXIZ HAMILTON, HENRY		1		742654		1.5	27	01	43	GGSD		350	
5107 BOONTON, TOWN OF	45002:94	STREAM 1		742653	t	1.5	27	01		SERCO		90	4
MENOLIZ HAMILTON, HENRY				742550	•	1.5		01	55	(BCCEID		1000	
5197 - BOONTON, TOWN OF	2512045	da.		742641		1.5	27	01	105	ECSD		375	•
5109 - BOONTON, TOWN OF	2507495	5				4.4		20	129	6080		500	
5235 FARSIFFANY-TROY HILLS	2511628	10		74261H		4.1	rhann Sangaray Sangaray	29	127	GEGO		750	
5234 FARSIPPYNY-TROY HILLS	The same of the sa	18 -		742404				01 -	68	GCISD		100	
ZZZIP CEESNA AIRORAFT CORFORATION	2224024	FW4 12		, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	F	0.5				GOSD		100	
2333P CESSNA AIRCRAFT CORPORATION	ZŽ4055	FS: 3		742545	E	0.5	27	0i	87.5			100	
20019 CERENA AIRCRAFT CURFORSTION	2224005	NW 4	405515	742548	F	0.5		Ot	90	GUSD		0	
SSSIP CESENA AIRCRAFT COSPORATION	2223979	Tub-1	405515	742549	ŗ-	0.5		01	5 9	GDSD			
	2223999	11/2-2	405615	742548	ŧ=	0.5		01	91	ECSD		0	
	2224000	10-3		742549		0.5	27.	01	90	GOED		9	
The state of the s	2224001	Tb)-4	405615	742548	F	· 0.5	27	-01	82	GCED		0	
	2224002	IV-5		742549		្.5	27	01	84	(GC) Ξ D		O	
2331P DESENA AIRCRAFT CORFCFATION	2224003	Dirá		7425/48		0.5	27	$^{\circ i}$	89	EDED		0	
CUCIF CESSNA AIRCRAFT CORFORATION		February 1		742540		0.5	en juny dia e	01	50	CRET		100	
2331F CESSNA AIRCFAFT CONFCRATION	2222717			742540		4.8		29	100	GUELD		300	
SOSS PARSIPPANY-TROY HILLS	25):2719	12		742530		4.3		(0,0)	138	EEED		420	
5235 FAFSIFFANY-TROY HILLS	2507381	1/4		742502	F	4,4		29	672	.6099		e generalis	
SCORE - FARSIFFYNY-TROY HILLS	4500033	4				4.4		29	150	COED		(310 <u>0</u> 0)	
SISSA FARSIPFANY-TROY HILLS	2507645	4A		742502	F.	2.6		01		SEROC			
STAGE - JERSEY CITY DEPT. OF WATER	ECCNTON	REBERVOIR		742449				29	80	GOSD		540	
5236 PARSIFPANY-TROY HILLS	2511527	9		742408		4.5		29	75	COSO		330	
SCHE - PARGIFFANY-TROY HILLS	4500032	Age Age Sant		742259	F."	. 4.5			139	COED		700	4
5236 PAYGIFFANY-TROY HILLS	2518947	17		742340	F	4.5		29	293	GTRBS		100	
5180 . MONTYILLE TOWNSHIP MUA	2513975	5		742315		2.1		21	277.3			120	•
PROCOS CIANLIN FARM	ROCKAWAY RIVER	STREAM 1		742238	۳	3.2		21	4.425	SERCC		40	
and the second s	2513301	9	4000537	742234	(= ·	2.7		$\mathbb{Z}1$	112	GTRBS			
5190 - MINTYILLE TUNNEHIF MLA MROOOF CONDLASOS RIVER FRONT FAFM	ROCKAWAY RIVER	STREAM 1	405344	742234	F	3.చ	-27	21		-SFROC		100	
	KIKEGUT RESERV	SEMESTALL	405900	742230		4.5		0.3		SEFFIE			
SIDE RALER POPULA		POND :		742218	Ţ	3.9	27	21	12	SPROC	GTFB	100	
MRODOP, CONTLEGOS RIVER FRONT FARM	CROCKED EROOK	STREAM 1		742217	par .	. 3.9		21		SPROC		100	
170009 CONDURGOS RIVER FRONT FARM	GROOKED BROOK	RESERVOIR		742148	•	5.0		. 21	50	SP'		150	
5110 BOCKTON, TOWN OF, WATER DEPT.	STONY EROCK			742140	Т	4.5		15	50	CFC		240	
5151 FAYSON LAKE WATER COMPANY	2203408	<u>.</u> 3		742140		4.5		15	90	GFC		125	
5151 FAYSON LAKE WATER COMPANY	23207045	4				4) a C		15	75	(370)		200	
5151 TO FAYEON LAKE WATER COMPANY	2214633	65 52		742140		5.4		21	290	GTEES		125	
5180 : MONTVILLE TOWNSHIP MLA	2503697	1/WALISH		742125			27	21	300	GTRES		57	
SIEO MENTVILLE TOWNSHIP MLA	2512349			742120	!				243	GUSD		750	
S190 A MONTVILLE TOWNSHIP MUA	2213923	10/INDIANZ		742045			27	21		GC60		1000	
S190 A MONTVILLE TOWNSHIP MLA	2213497	9/15D1A43		742046			27	21	242			group satisfied	
SIBO & MENTIVILLE TOWNSHIP MLA	2222497	11/1/016/5	405505	742035		4.4	27	21	250	GFC			
with the month of the first than the first of the first the first of the first the first of the													

Page . I of FRELIMINARY SLAVEY OF WATER WITHER WILL FOIRTS WITHIN 5.0 MILES OF 400000 LAT. 742535 LCM. (IN GROER BY FERMIT MLMEER) - 12/16/89

	C. Stagford	the Late Committee of the Committee of t							•					and at the second to the second
	NLMBER	. NAME	SOURCEID	FOCID	LAT	LON	LLACC	DISTAN	E COLNIY	MM	DEPTH	GE01	Œ02	CAPACITY
		A THE RESIDENCE OF THE PROPERTY OF THE PROPERT	222717	F0! 1	405518	742540	; :::	0.	5 27	01	50	CERSED .		100
	2331P .	CESSANA ALPCEAFT CURPORATION		FM 2	405515	742548	F	· 0.	5 27	01	83	GUSD		100
		CESENA AIRCRAFT CORFORATION	2274004	FW 3	405615	742549	F	o.		01	89.5	GGSD		100
	t	CESSNA AIRCRAFT CORFOFATION	2224005		405415	742548	F	o.		01	90	GOSD		100
		CESSNA AIRCPAFT CORPORATION	2224006	Rel 4	405515	742548	F	Ö.		01	87	GCISD		0
		CESSIVA AIRCRAFT CORPORATION	2223998	[W-1	405615	742548	<u>.</u>	o.		01	91	GOSD		O
		CESSNA AIRCRAFT CORPORATION	2223777	14-2			<u> </u>	0.		O.	90	GCED		0
		CESSIA AIRCEVET CORFORATION	2024000	IW-3	405615	742548	F	0.		01	62	GOSD'		Ú
		CESSIA AIRCRAFT CLEFURATION	2224001	IU-4	405615	742549		0.		0î	26	SCISD		O
	:	CESSNA AIRCRAFT CORFORATION	2324002	ivi-ti	405615	742548	F			01	69	GUED		Ō
		CESSNA AIRCRAFT CORFORATION	2224003	114-5	405615	74:25/48	ŗ.	. 0.		01	43	6060		350
	5109	ECCHTCH, TOWN OF	4000284	1	405456	742654		1.			38	GERED		350
		BOONTON, TOWN OF	4500285	2	405453	742655		1		01 01	106	CCSD		375
		FOOMON, TOWN OF	2507495	FUT Test	405451	742641		1			100 55	GOSD		1000
•	, .	EDICATION, TOWN OF	2512045	6	405459	742650		1		01		SP		150
	5110	POCNTON. TOWN OF, WATER DEFT.	STONY BROCK	PERENOIR	.405908	742148		. 5		21	50	sr-fnk		alla Santi Santi
	5128	BUTLER BOROLDH	KIMEONT RESERV	RESERVOIR	405700	742220		4		03	emants.			517
	5144	ROCKGWAY ECROLICH WATER DEPT.	2510403	5	905413	743056	9	5		35	82	GEED		800
	SJI TTT	FOCKAMINY BOROLLEH WATER DEPT.	2519231	ద	405412	743028	3	ű		35	83	(ECEJ)		
		POCKAWAY BOROLOH WATER DEPT.	4500348	1	405405	742900	. 8	. 3		35	52	60SD		EEE5
	5151	FAYSON LAKE WATER COMPANY	2203409	ত্র	405825	742140	T	4	5 27	15	50	GFC		2401
	WW.	FAYSON LAKE WATER COMPANY	2207045	4	405325	742140	Ţ	4	5 27	15	90	GPC		125
		FAYSON LAKE WATER COMPANY	2214633	5	405825	742140	Ţ	4	5 27	15	95	GFC		200
	mm + mm - 2	MONTVILLE TOWASHIP MUSA	2503497	2/WALNUT	405029	742125	t 	E)	4 27	21	290	GTRES		125
	5190		2512349	4	405324	742120	F	4),	7 27	21	300	GTRBS		57
		MINITUILLE TOWNSHIP MAN	2513675	ET.	4055/21	742315	F	275 413	1 27	21	273	GTRES		100
		MONTVILLE TOWNSHIP MAN	2222499	TivIMDIANS	405505	742035		4	4 27	21	250	æc		
		MONTVILLE TOWNSHIP MUA	2213723	10/15/01/65/2	405601	742046		4	2 27	21	243	GUSD		750
		MONOTULLE TOWNSHIP MUA	2213497	9/IMDIANI	405601	742046		4.	2 27	21	242	GOSD		1000
		MENTIVILLE TOUNSHIP MUA	2513301	8	405537	742234	F	2	7 27	21	112	GTRES	-	40
		MOULTINE LOWETE WAY	2507381	1A	405206	742530	F	4	.3 27	29	138	GDSD		420
	5234	FYRSIFFANY-TROY HILLS	4500032	3	405206	742358	F.	4	.6 27	29	75	COSD		SEO
		PARSIPPANY-TROY HILLS	45000055	4	405205	742502	F	4	.4 27	29	82	GDSD		225
		PARSIFFANY-TROY HILLS		ac.	405205	742502	F	4	.4 27	29	150	GCED		90O
	,,,	PARSIPFANY-TROY HILLS	2507545	\$	405210	742408	F=-	4	.5 27	29	80	GOSD		540
		PARSIFFYAY-TROY HILLS	2511627	7 10			i.		.4 27	29	129	GOSD		500
	. '	PARSIFFYMY-TROY HILLS	2511438	12	405140	742540			.8 27	20	100	GCSD		300
		PARSIFFANY-TROY HILLS	2512718	17	405210	742340			.6 27	29	139	(30(SE)		TOO
	٠.,	PARSIFFANY-TROY HILLS	P518849		405219	742504	F		.1 27	29	127	GOSD		750
	•	PARSIPPANY-TROY HILLS	2518950	19	405237	742710	•		.9 27	25	64	GCKSD		400
	5238	MOUNTAIN LAKES BORTLISH	4500300	3 a tolentu	405337	742710			9 27	25	64	GOSD		400
		MOUNTAIN LAKES BOROLGH	4500301	4 TOVEATH		742710	السة		.o. 27	25	463	6090		300
	•	MOUNTAIN LAKES BOROLGH	4500302	4 TONER H	405337	742718	1:		.0 27	25	333	GOSD		1,000
		MOUNTAIN LAKES BOROLEH	2514578	5	405337				.3 27	35	125	6050		entropies;
	5248	FOOKINGY TOMPSHIP WATER DEFT.	2507626	1	405559	742919			.2 27	7.7	150	GQSD		175
		RODKAWRY TOWNSHIP WATER DEPT.	4500037	4	405450	743008			.2 27	35	163	GOSD		450
		POCKYWAY TOWNSHIP WATER DEPT.	2514324	5	405450				.2 27	35	153	GUSD		530
	, **	ROCKÁWAY TOWNSHIP WATER DEFT.	2515364	7	400400	743010	r		.6 27	08	146	GOTM		450
	5257	CENVILLE TOWNSHIP WATER CEPT.	4500324	1		742358			.6 27	08	116	GOTM	•	550
		DENVILLE TOWNSHIP WATER DEPT.	2505142	G		742858			.6 27	01		SPROD		
		JERSEY CITY DEFT. OF WATER	ECON! CN	RESERVOIR	相のなるが	742449	12.		.0 27	21		SPROC		120
	ECOCAM	CONNIN FARM	ROOKAWAY RIMER	EIFEAN 1	40年15	742238	i-		.4 27 .9 27	08		SPECC		750
	FR:007	TOURNE VALLEY FARM	ROOKAWAY RIVER	STEEN 1	405555	742740	t"			21		SEROC		100
	ME0009	CONDURSOS RIVER FRONT FARM	ROCKWAY RIME:		405344	742234	F		.6 27 .9 27	21	12	SPROC	GTER	100
	***	CONDURSOS RIVER FRONT FARM	OROGKED SPUCK	FOND 1	405557	747218	1.			21	As sein	SEROC	Side a s. Japan.	100
		CONDURSOS RIVER FRONT FARM	CROOKED BHOOK	STREAM 1	415337	742217	}**		.9 27 .5 27	01		SERCO		- O
	2F0012	HYMILIGH, HEIRY	ROCKSWAY RIVER	STREAM 1	405458	742653	r:		a sud — alia 7	12.7 46		1841		
		11												

Page 2 of FRELIMINARY SURVEY OF WATER WITHOUTS WITHIN S.O MILES OF 405550 Lat. 742535 LON. (IN GRAER BY FERMIT NUMBER) - 12/16/89

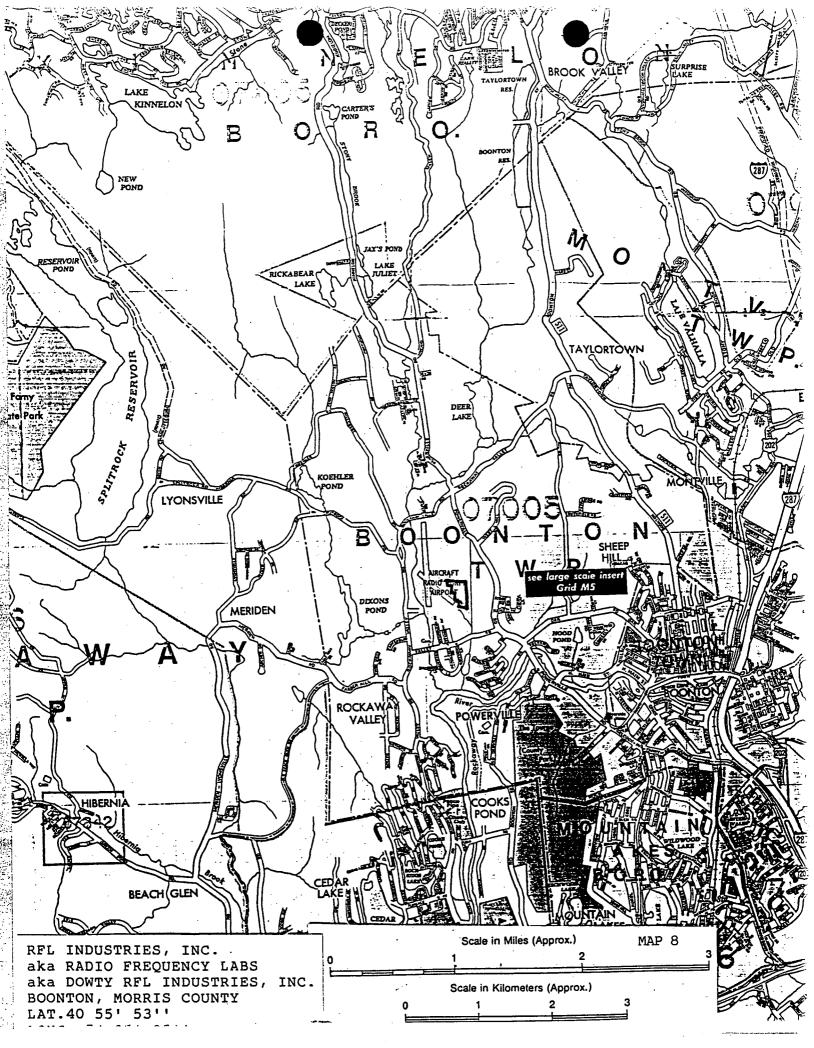
NUMBER NAME SOURCEID LOCID LAT LON LLACO DISTANCE COLUMY MLN DEPTH GEDI GF02 CAPACITY

HAMILTON, HENRY ROCKAWAY RIVER FOND 1 405459 742655 F 1.6 27 01 20 SPROC GPCBN 90

Number of Observations: 56

Fage 2 of PRELIMINARY SLRVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 409253 LAT. 742535 LON. (IN ORDER BY DECREASING LONGITUDE) - 12/16/97
MANSER NAME SOLECTED LOCID LAT LON LLACO DISTANCE COLNTY MAN DEPTH GEDI GEDIZ CAFACITY

Number of Observations: 56 .





State of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

CN 029

Jorge H. Berkowitz, Ph.D. Acting Director

Trenton, N.J. 08625-0029 CERTIFIED MAIL

(609) 292-1637

Fax # (609) 984-7938

RETURN RECEIPT REQUESTED

Mr. Jack Slater Dowty RFL Industries, Inc. Powerville Road Boonton, NJ 07005

1117 e 1860

RE: Request to Terminate NJPDES permit No. NJ0099104

Dear Mr. Slater:

The Department has received a letter from your consultants (First Environment) requesting termination of your NJPDES Discharge to Ground Water permit (#NJ0099104). Please be informed that the Department requires four consecutive sampling results indicating no detectable contamination before permit termination can be considered. In addition, Table 2 of this letter does not indicate that 5 ppb of Trichloroethylene were detected in the sample from well #2 taken on October 6, 1988 (as page 21 of the laboratory results forms indicates, but the NJPDES reporting forms do not). Therefore, the Department considers Dowty-RFL to have two consecutive sampling events without detectable contamination, at this time.

Furthermore, because less frequent sampling over a longer period of time would be more protective of human health and the environment for this case where the objective is to observe the behavior of very low levels of contamination through time, the Department will allow that future monitoring may be conducted on an semi-annual rather than quarterly basis. Thus, semi-annual monitoring shall continue until a total of four consecutive sampling events (possibly including quarterly and semi-annual results) report no detectable contamination. A permit termination request may then be submitted.

If you have any questions please contact Henry Schuver at (609)

Sincerely,

Irene Kropp, Chief

Bureau of Ground Water Pollution

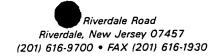
Abatement

WQM239 RCRA(LD)

New Jersey is an Equal Opportunity Employer Recycled Paper

ATTACHMENT A





RECEIVED

JUN 2 3 1989

June 22, 1989

Division of Water Resources
Ground Water Quality Control

Mr. Henry Schuver
Groundwater Quality Control Section
Water Quality Management Element
Division of Water Resources
New Jersey Department of Environmental Protection
CN-029
Trenton, New Jersey 08625

Re: Request to terminate Dowty RFL Industries

NJPDES permit # NJ0099104

Dear Mr. Schuver:

The requirements of the Dowty-RFL Industries NJPDES permit # 0099104, as renewed in March 1988, involve sampling two remaining monitoring wells, MW-1 and MW-2, and one surface water point, downstream along Valley Road (DSVR), for volatile organics analysis. Monitoring well MW-1 is hydraulically upgradient of the former infiltration/percolation lagoon and MW-2 is hydraulically downgradient of the lagoon. The DSVR sampling point is located where the surface stream, previously draining the lagoon, crosses Valley Road.

The analytical results from water samples collected at these locations over the last 3 consecutive sampling episodes, summarized in Tables 1 through 5 have been undetected for trichloroethylene and 1.1-dichloroethane. Although analysis of the samples did identify methylene chloride and toluene at estimated concentrations ranging from 2 to 10 parts per billion, these compounds were also detected in the corresponding laboratory method blanks indicating that the results are attributable to laboratory contamination. No other volatile organic compounds were detected. Based on these results, Dowty-RFL Industries is requesting to terminate NJPDES Permit #0099104, discontinue monitoring of ground and surface waters, and abandon wells MW-1 and MW-2 in accordance with NJSA58:44 et seq. (Subchapter 9).

169:1916 -



Should you have any questions concerning Dowty-RFL Industries' request, please contact me. Your prompt attention to this matter would be greatly appreciated.

Sincerely,

FIRST ENVIRONMENT

Steffi A. Minnis Hydrogeologist

SAM/csf

cc: Jack Slater, Dowty-RFL

B. T. Delaney, Ph.D., P.E.

TABLE 1

GROUNDWATER SAMPLING RESULTS WELL MW-1

	\ / SA	MPLING EPISODE	·
<u>PARAMETER</u>	04/06/88	01/27/89	10/06/88
Methylene chloride	u 9	u	3 [*]
1,1-dichloroethane	u	u	u
Trichloroethylene	u .	u ·	u
Toluene	u	u	2*

NOTES:

u = undetected

169:1916a.

^{*} Analyte was found in the method blank as well as the sample indicating laboratory contamination.

TABLE 2

GROUNDWATER SAMPLING RESULTS WELL MW-2

	SA	MPLING EPISODE	12/2/2
PARAMETER	04/06/88	01/27/89	10/06/88
Methylene chloride	u q	五米丁米	3* V
1,1-dichloroethane	u	u	u 7
Trichloroethylene	u	u ·	5 6 7
Toluene	u	. u	2*
	files check		
	shows		

NOTES:

u = undetected

169:1916a.

B4

^{*} Analyte was found in the method blank as well as the sample indicating laboratory contamination.

TABLE 3

GROUNDWATER SAMPLING RESULTS DOWNSTREAM VALLEY ROAD

	SAMPLING EPISODE						
<u>PARAMETER</u>	04/06/88	01/27/89	10/06/88				
Methylene chloride	u	5 *	3 *				
1,1-dichloroethane	u	u	u				
Trichloroethylene	u	u	u				
Toluene	u	u	2*				

NOTES:

u = undetected

169:1916a.

^{*} Analyte was found in the method blank as well as the sample indicating laboratory contamination.

TABLE 4

GROUNDWATER SAMPLING RESULTS FIELD BLANKS

	SAMPLING EPISODE						
PARAMETER	04/06/88	01/27/89	10/06/88				
Methylene chloride	u	3 *	3 [*]				
1,1-dichloroethane	u	u	u				
Trichloroethylene	u		u				
Toluene	u	u	8 *				

NOTES:

u = undetected

^{*} Analyte was found in the method blank as well as the sample indicating laboratory contamination.

TABLE 5

SAMPLING RESULTS TRIP BLANKS

	SA	MPLING EPISODE) <u></u>
PARAMETER	04/06/88	01/27/89	10/06/88
Methylene chloride	u	9*	3*
1,1-dichloroethane	u	u	u
Trichloroethylene	u	u	u
Toluene	u	u	8 [*]

NOTES:

u = undetected

169:1916a.

B7

^{*} Analyte was found in the method blank as well as the sample indicating laboratory contamination.

INSPECTION REPORT

REPORT PREPARED FOR:

⊠ Generator

☐ Transporter

☑ HWM (TSD) Facility

	PACILITYINFORMATION
Name:	Douty RFL Andustries Inc.
	Powerirlle Rd
	Bonton WPN J
Lot:	Block: _/2
County:	Morris
Phone:	334-3100
EPA ID#:	NJ0002156677
Date of Inspection:	
	PARTICIPATING PERSONNEL
State or EPA Personnel:	Carry Sufried NJDEP-DHLA
Facility Personnel:	Mr. Slates - Incilities Manager
	•
	0 1 1
Report Prepared by Name:	Carolya Sufred
Region:	- Mathera
Telephone#:	201-299-7573
Reviewed by:	h 13-3
<i>;</i>	$\gamma / \gamma c^2 / c^2 i$

•	FACI	LITY NAME:	Denty RFL Undustries Yrc
		ADDRESS: _	Pourrelle Rd
		. -	Borston Tup NJ
TIME IN: 1010		COUNTY:	Maris
TIME OUT:		EPA ID :	NJDØØ2156677
	DATE OF II	NSPECTION: _	
PHOTOS TAKEN	☐ YES	⊠ NO	
If yes, how many? _			
SAMPLE TAKEN	☐ YES	⊠ NO	NO. OF SAMPLES
NJDEP ID#		-:-,	
MANIFESTS REVIEWED	▼ YES	□ NO	
Number of manifest	s in compliance		<u> </u>
Number of manifest	s not in compl	iance	· · · · · · · · · · · · · · · · · · ·

List manifest document numbers of those manifests not in compliance.

CZ

FACILITY DESCRIPTION AND OPERATIONS

PACILITY DESCRIPTION TO THE PACILITY OF THE PA
Druty RFL Sudustries Vac is an electronics
company which assembles a variety of electronic equipment
on a contract basis. The company has been at this
site since 1922 but operations have changed significantly
erry the past fix years and since the last inspection.
(Sec. for 31, 1980 inspection report file # 14-02-01). RFL now
(See Jan 31, 1980 inspection report file # 14-02-01). RFL new luyer circuit brands and sends out to job shops parts
for mital finishing and painting.
PROCESS: Premade remponents are londed oute the circuit board
The consentition be flow soldered or across flow then
Through wave solder machine. They are then rater rensed, dued and the beads are cut off. In the case of compensates which
and the beads are cut off. In the case of compensates which
cannot be put through the wave solder machine the compounts
are inserted and hand soldered their cleaned in "Genoclie"
digreower
Thate flow solder flux is generated by the zace
solder machine. The waste is collected in a 5 gal contained
and there is transferred to 55 gol druns. The "Gensolve"
diquarer rence is it place of a freez degreaser. The degrease
nit ha a cleaning system within the circulating system.
The rade sludge the keep generated yet since the units
Ter pul ule Hac in fax or Feb 1987.
<u> </u>

FACILITY DESCRIPTION	AND OPERATI	<u>ONS</u>				
SUMMARY:	The sit	L L LASOCI	ction run	ealed ains	enter o	alu .
SUMMARY:	Drums	zikre l	abeled a	rth recume	elation	start
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las arass son	Jana Ca	it z	ran done	in acces	laxce.	arth
he approved	Moure	dan.	Sec atta	Ad letter	March	7, 1986
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7-10 # 14-02-01 Confidential

FRess	File
FHOM:	Cardy Seifred DATE: 11/17/87
SUBJECT:	RFL Industries Vic Breaton Tup
	RFL Andustries is acting as a generator only
	although they still have an EPA status as a TSD
	The For status is due to a lagoon which has
	his closed according to the approved climere pla
	EPA had been out appreximately one most
	price to my impection from questioning the
	facility hepresentative it seems EPA ded a RCR
•	inviction and learned the history of the site.
	They were upon are of the changes which have occurred on the site.
	advised in the site.
	The bastite should be delisted from
	The facility should be delisted from
	The facility should be delisted from TSD status to generator only on the
	The facility should be delisted from TSD status to generator only on the FPA printout
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	The facility should be delisted from TSD status to generate only on the FPA printout .

INSPECTION REPORT

REPORT PREPARED FOR:	
Generator	
☐ Transporter	
☐ HWM (TSD) Facility	
· ·	FACILITY INFORMATION
Name:	
Address:	Powerville Road
	Boon for New Jersey
. Lot:	Block:
County:	·
Phone:	(2011 334-3100
EPA ID#:	NJ0002156677
Date of Inspection:	September 29, 1987
·	
•	PARTICIPATING PERSONNEL
State or EPA Personnel:	SAMUEL I. EZEKWO
	Environmental Engineer
Facility Personnel:	JACK SLATER
	Facilities Manage
Report Prepared by Name:	SAMUEL I. EZEKNO
Region:	EPA-Region II
Telephone#:	(212) 264 - 5858
Reviewed by:	

Date of Review:

	FACILI	TY NAME:	DOWTY	RFL	Inch	shes
		ADDRESS:	Power vi	he	Rocd	÷
			Bounto	\sim \sim	J.	
TIME IN:		COUNTY:				
TIME OUT:	1	EPA ID :	NJD002	1566-	17	
	DATE OF INS	SPECTION:	Septemb	+ 29	, 1587	
PHOTOS TAKEN	☐ YES	Ø NO			•	
If yes, how many? _						
SAMPLE TAKEN	☐ YES	⊠ no		IO. OF SAMPL	.ES	
NJDEP ID#			•			
MANIFESTS REVIEWED	☐ YES	□ NÓ				
Number of manifest	s in compliance	20	•		•	
Number of manifest	s not in compliar	nce)	•		
List manifest d	ocument number	s of those r	nanifests not in c	ompliance.		•

TO: JUEL GOLUMBEK	
FROM: SAMUEL J. EZEKWO DATE:	
SUBJECT: Dowty-RFL Industries	
This inspection confirms that RFL	
openhon has changed significantly	
from the presion years. As a result	
Voy mall quantity of lazardons wast	<u>. </u>
10 Allas color 10 h H	
RFL has reported to be delisted as	ζ
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168	—

FACILITY DESCRIPTION AND OPERATIONS

FACILITY DESCRIPTION AND OPERATIONS
RFL manufactures electronic components
for communication devices such as detection
relay devices for utilities. The operation
included plating metal finishing and printed
reley devices for utilities. The operation included planing metal finishing and printed circuit boards. The plating operation ended
in 1980 and was moved to RFL's Newton.
facility. The metal finishing operation was
diminated in 1585, due to excessive cost
of waste management in an in- nte
treatment surface impoundment and drums.
Presently only soldering speration
associated with circuit boards manufacture
is anduded on ste All relevant electronic
parts/components are purchased from outside.
The soldening operation consists of a
preheated flux of 90% bopropyl alcohol
being passed out the natural in a "wave"
done in a Flow solder machine. About
10 gallons per month of waste isopropriet alcohol
is produced in this operation.
Circuit boards are also cleaned in a

FACILITY DESCRIPTION AND OPERATIONS

()
Genesolv DFX orbent nachine with 90.9%
trichloro trifluoroethane generating about 5 gal/yes
Genesolv DFX orbent nathine with 90.9% bichlorotrifluoroethane generating about 5 galfyer of waste bichlorotrifluoroethane. Che attachment I
The only hazardons waste management
prun renamue en-sile is drum
The only hazardons waste management frough remaining on-site is drum storage in a 15 ft x 20 ft x 6 ft shed.
The treatment surface impoundment was
dosed in December 1985.
There are four (4) monitoring wells (well #1,
#2, #3, #4). NJOEP Dinsion of Water
Kesonres changed RFL's "alternate assessment"
Status to "detection monitoring" in March, 1986
because thee was no evidence of
monitoring date. The previous years
monitoring date.
DEP required a minimum of four quartely
ground walls minimus beginning January 1986
by RFL. II no significant ground water
antamination is found RFL am then
request that their NJPDES prompt be
Terminated.
However recent date for montry well #2
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and the control of th

FACILITY DESCRIPTION AND OPERATIONS	
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is now showing contamination with trichloroethylene (9 ppb) and 1,1,-dichloro	etha.
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AMERICAN DEWATERING CORPORATION

PUMPING CONTRACTORS

ADDRESS REPLY TO: ROCKAWAY, NEW JERSEY 07866 TKL. 201 627-2100

Mr. Richard Seabury III Radio Frequency Labs Boonton, New Jersey

Dear Mr. Seabury:

We submit herewith our analysis of the pump test conducted under Purchase Order #92418-3202 dated March 30th, 1966.

Conclusion

We have evaluated the pump test data together with other available information as detailed below. It is our opinion that the shallow aquifer under your plant will not support withdrawal substantially in excess of what you are now taking without a change in method.

Unfortunately, you appear to be in the extreme upstream end of a restricted underground basin which drains south into the Rockaway River. The coarse shallow sands from which you are presently drawing would be depleted in the course of the summer if pumped at a substantially higher rate.

There is a possibility that your additional requirements can be met by a somewhat different approach. A ground water budget could be set up, involving major dewatering in the basin under your plant during the 13 week summer season. You would then depend on recharge from the surface to replenish the water during the balance of the year.

Intentional dewatering of the basin on a cyclical basis would dry up your existing systems for domestic and airconditioning water supply. The new system would therefore, have to replace these.

If you wish to explore this method further, we will be happy to discuss it with you.

It is disappointing to us as well as yourselves that the aquifer under your plant doesn't appear to be adequate to meet your additional requirements by an extension of your

ATTACHMENT

HOUSTON

present development methods. However, we are sure that you will agree it is much better to be aware of these conditions . in advance of construction.

With regard to the problem of temporary dewatering of the foundations of the new plant, we doubt that this can be integrated with a permanent water supply system. A system in this area adequate in size to accomplish the temporary dewatering could not be pumped on a continuous basis.

Data Sources

The analysis in this report is based on the following information: .

- Drilling in conjunction with wellpoint installations made in 1962.
- Performance of existing wellpoint systems since 1962. 2.
- Controlled pump tests on existing wellpoint systems March 30th through April 6th, 1966.
- Verbal information from RFL on geophysical studies conducted in the area.
- USCS topographic maps, Boonton quadrangle.
- 6. Visual examination of topography.

Lithology

The topography indicates that RFL is situated at the headwaters of a small creek tributary to the Rockaway River. Drilling, test pumping and verbal reports of geophysical testing would indicate that the underground boundaries are approximately the same as the topographic boundaries. If so, the basin underneath the plant is roughly 1500 to 2000 feet wide and extends 5000 feet to the Rockaway. The ground surface falls 6 feet in 3000 feet, measured along the creek.

The basin is approximately 40 to 50 feet deep to bedrock and is filled with glacial outwash in beds of widely varying permeability. The top fourteen feet is coarse sand and gravel. The next 12 to 15 feet is fine brown silty sand. Below that . drilling indicates very fine grav sandy silt.

The water table varies from 7 to 10 feet below the surface during the year.

The upper coarse material is highly pervious, but at the end of the summer contains only four feet of water, except for the narrow channel where the coarse material extends deeper. 'The intermediate fine brown sand yields water in some quantity when properly developed with wellpoints, but were it not for vertical recharge from the coarse material above, the yield of the fine brown sand would not hold up.

The gray sandy silt is not productive of water in quantity.

Present Withdrawals

RFL presently draws water for domestic uses from a hand dug well.

In addition, there are three wellpoint systems producing water for air-conditioning:

The 10 wellpoint system for the manufacturing building, located in the coarse upper sands is rated at 100 gpm.

The two systems servicing the quonset and hangar buildings, rated at 40 gpm and 30 gpm respectively, are located in the deeper fine brown sands.

After use, the air-conditioning water is spilled the ground, and a substantial portion probably percolates back to the coarse upper sands. It has been reported that the ground water temperature rises measurably during the summer months, possibly due to this recirculation.

During the summer of 1962, the water table dropped two and one half feet between June and September, indicating that some part of the total volume pumped was drawn from storage, and that underground recharge was less than necessary to support the flow. Continuous flow rate:

Total gpm = 100 + 40 + 30 = 170Hours per week = 40Equivalent continuous flow = $170 \times 40 = 45$ gpm.

Thus, the underground recharge appears to be substantially less than 45 gpm during the summer months.

Pumping Test April 1966

A pumping test at 24 gpm was conducted for 110 hours, a total of 160,000 gallons,

Water pumped for domestic service during the test period (spanning a weekend) is estimated at less than 10,000 gallons and can be neglected.

The aquifer shape is so complex that the results cannot be interpreted by conventional analysis. However, these conclusions can be drawn:

- 1. Time/drawdown data shows a consistently increasing slope, indicating the presence of barrier boundaries to the north and west of the plant. This coincides with topographic boundaries.
- Recovery of water level in the upper coarse sand was very slow after pumping stopped, indicating a lack of underground recharge.
- 3. Just at the end of the test, the disposal pipe backed up flooding the area of the pumped wellpoints. Observation wells 1-2-3 quickly showed a recovery, indicating good vertical transmissibility of the shallow sands.

Additional Yield

Indications are that, with the existing pumping equipment the upper coarse sands have been developed to their maximum limit. There is little recharge, probably less than 40 gpm. and pumping at the present rate of 170 gpm, 40 hours per week is depleting the volume of storage in the upper sands over the course of the summer.

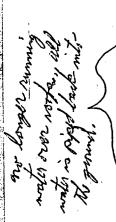
Approximately 5 million gallons is presently being pumped from the ground in a 13 week season. We will assume one third of this is returned to the ground (balance being lost to runoff and evaporation) and another third is supplied by underground recharge. The total withdrawal from storage then would be 1.6 million gallons. This would represent dewatering of the upper sands to a maximum depth of 2 feet over a radius of 350 feet. Thus, a rough estimate of the dimensions of the underground basin checks with pumping experience.

'It appears that further development must come from storage in the basin during the summer, and for year-to-year reliability will depend on replenishment from the surface in the winter and spring.

Ground Water Budget

The total volume of water stored above bedrock in the basin is probably on the order of 100 to 150 million gallons. That part of the water in the deep gray silty sand cannot be developed. Nevertheless, if a deep channel of the coarse upper sand, or even the intermediate brown sand, could be discovered, it might be feasible to develop a wellpoint system of 500 gpm intermittent capacity that could draw 15 million gallons from storage over the summer.

D4



. It is possible that major dewatering such as this would increase underground recharge, by attracting flow from minor tributaries to the basin and from fissures in the The dewatering would also cause a reverse flow, bringing water back to RFL that had already gone by en route to the Rockaway.

Data indicates conditions favorable to vertical replenishment during the off season, but with greater summer withdrawals the natural percolation may have to be assisted with man made structures.

The use of cyclical pumping within the available ground water budget seems feasible. However, it depends on a deep channel of clean sands, the existence of which is only partly evident from previous drilling. What evidence there is, points to the likelihood that the channel crosses over on the airport property, making it possible that an easement for the system will have to be procured.

A system intended to withdraw water from storage requires considerable sophistication in design, but the principles involved have been worked out in previous installations.

Very truly yours,

Patrick Powers

Water Development Engineer

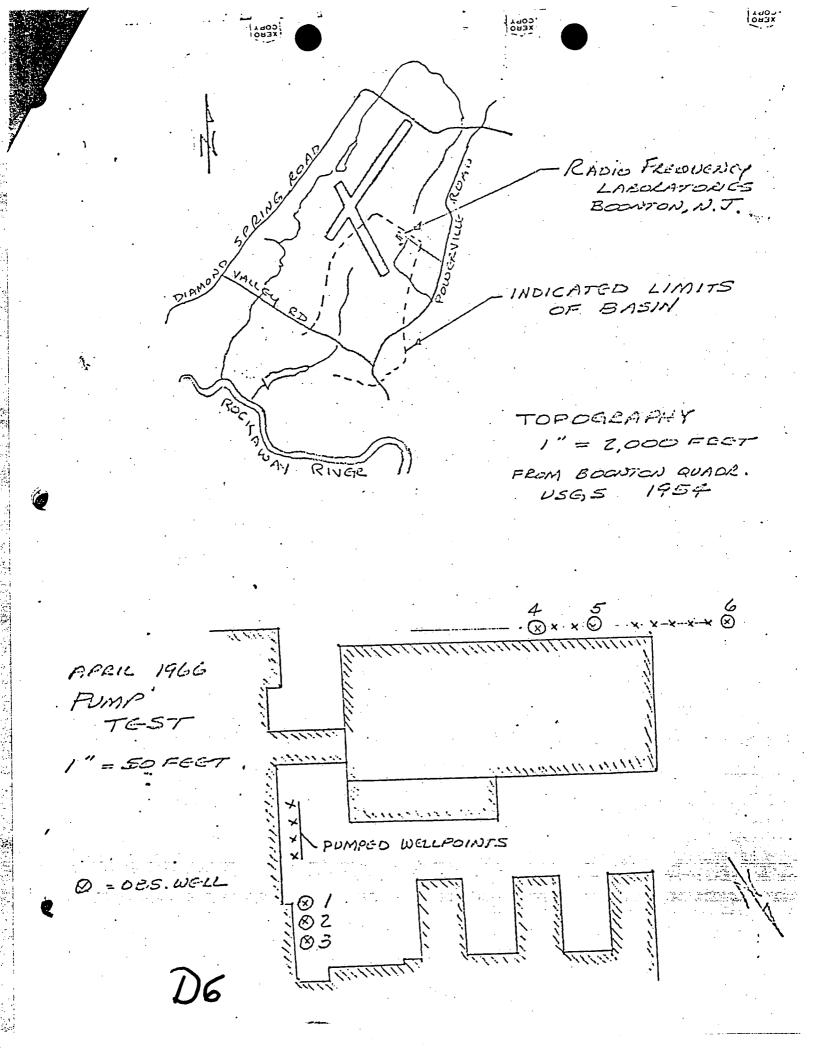
AMERICAN DEWATERING CORPORATION

JPP: jh

cc: Hackensack

E. J. Moore, P. J. Jones

R. G. Lenz, T. C. Gill



WI. RINGE 502-505

COARSE SAND

EGENUEL

EROUNG

FINE SHIP

ROCK

ASSUMED

ROCK

PINE

ROCK

480

ASSUMED SOIL CONDITIONS ALONG, E-W SECTION

KNOWN TRANSITIONS SHOWN THUS 6

RADIO FRECQUENCY LABS

BOONTON, N. J.

41166 JPP

SCALE HORIZ 1" = 200'

VG2T 1" & 20'

GROUND/WATER TECHNOLOGY, INC.

February 18, 1982

RFL Industries, Inc. Powerville Road Boonton, NJ 07005

Attention: Mr. Richard W. Seabury, III

Subject: Preliminary Hydrogeological Investigation

Gentlemen:

Ground/Water Technology has completed a preliminary investigation of the hydrogeology of the RFL Industries, Inc. property on Powerville Road in Boonton Township, New Jersey. This letter outlines the findings of this investigation and includes recommendations for further steps which can be taken in the assessment of the impact and extent of groundwater contamination.

LITERATURE REVIEW AND FIELD WORK

Ground/Water Technology reviewed many sources of information including reports of water resource studies of the Rockaway River Valley, a preliminary hydrogeological investigation of an adjacent industrial site, state well records, water quality data, and the report of the analysis of a pump test performed on the property. In addition, on-site subsurface information was reviewed from logs of the wellpoint installation, monitoring well installations and foundation test borings drilled on the property.

Ground/Water Technology personnel performed a geologic reconnaissance of surface features and collected information to indicate the characteristics of groundwater flow beneath the site.

GEOLOGY

The site is located on the buried portion of the southeast side of the northeast-southwest trending valley of Precambrian gneiss of the New Jersey Highlands. This is a portion of the Reading Prong of the New England physiographic province. The boring logs indicate that the uneven bedrock surface is approximately 25 to 45 feet beneath the surface. The bedrock in the area appears to form a shelf on the side of the main valley as bedrock depths greater than 100 feet have been found adjacent to the site.

100 Ford Road, P.O. Box 99, Denville, New Jersey 07834 (201) 625-5558

The soil on the site is predominantly Wisconsin stratified drift, a glacial deposit made up of layers of sand and gravel, sands, and silty sand. In the north end of the site (Refer to Figure 1) the wellpoint installation records indicate that the soil is made up of three strata. The uppermost is a 12 to 21 ft thick layer of well-graded sand and gravel overlying a 15 to 20 ft layer of brown fine sand. The lowest layer is a gray, silty sand which appears to extend to the bedrock. The monitor well boring logs indicate that the soil in the first 30 feet below the area of the evaporation pond is generally composed of a 10 to 20 ft layer of fine to medium sand or silty fine to medium sand, overlying a 20 to 10 ft thick layer of medium to coarse sand.

Over the past 50 to 60 years, development of the area has required the general leveling of the undulating topography on and adjacent to the RFL property. Boring logs reveal that portions of the present plant site are underlain by as much as 8 feet of fill.

The fire pond on the southeast side of the site was dug in a swampy area. This swamp extended to the vicinity of Building No. 12, as indicated by the presence of an organic layer and clay lenses encountered during construction.

GROUNDWATER FLOW

Ground/Water Technology personnel visited the site on December 29, 1981 to measure water level elevations in surface water bodies, monitor wells, wells and wellpoints on or adjacent to the site. The surface water elevations are considered to be exposures of the groundwater surface and were used in conjunction with the subsurface water levels to develop a contour map of the water table surface. On the date that these water level measurements were taken, the groundwater level appeared to be noticeably higher in the vicinity of the "dug well" by Building No. 6. It was reported that the wellpoint by Building No. 1A pumps constantly and any water from this wellpoint that is not needed is diverted to the dug well where it recharges the ground water. The air conditioning wellpoints along Buildings No. 2, 7, 13, and 14 are used only in the summer months and appeared to have no influence on groundwater levels at this time of year.

There was standing water in the evaporation pond, but it could not be discerned if this was a manifestation of any mounding of the water table, or "perched" water in the pond. The difference in the water level elevation in the evaporation pond and monitor well 2 was not characteristic of a mounded water table.

The groundwater levels of the monitor wells indicate that the ground water beneath the evaporation pond flows into the adjacent stream. In view of this, the location of monitor well 3 is probably outside the flow path from the lagoon to the stream.

The rate of flow of the ground water can be estimated from the slope of the water table (the hydraulic gradient) and an assumed permeability range of 10^{-4} to 10^{-2} cm/sec. for the soils as described in the area of the evaporation pond. Thus the flow rate would be in a range of 0.005 to 0.5 feet per day.

GROUNDWATER QUALITY

Effluent limits for discharge to the lagoon and for the monitor wells have been set by the New Jersey Department of Environmental Protection, Division of Water Resource for compliance with the new NJPDES permit regulations. The air conditioning wellpoints. dug well, the driven well, the wellpoint and the fire pond have all been tested within the past two years and none of these exceeded the limits set by the NJDEP. The water quality in the lagoon has been tested since January, 1979 and samples from the monitor wells have been tested since their installation in July, 1980. The discharge to the evaporation pond has been reduced from approximately 3000 gallons per day to 100 gallons per day since the termination of the printed circuit board manufacturing on the site in December, 1980. Monitor well No. 1 had been found only to exceed the limit for lead and Monitor wells is well within the limits for all organic compounds. No. 2 and 3 have been found to exceed the limits for various organic The test results for monitor wells 2 and 3 both show an increase in organic compounds between 5/1/81 and 5/14/81. concentrations in monitor well 2 rose from below the established limits to just above the established limits; while chemical concentrations in monitor well 3 rose from above the established limit to levels three to sixty times greater than the concentrations two weeks earlier. We find this sudden increase in concentration to be inconsistent with normal ground water transport, which usually produces gradual changes. It should be noted that the laboratories which tested the samples were different over this two week period.

SUMMARY

The following points are the salient results of our preliminary investigation:

- 1. The concentrations of chemicals in water supply wells on the property are less than the limits established by the NJDEP.
- 2. Groundwater flow from beneath the lagoon appears to be toward the adjacent stream.
- 3. Effluent limits have been exceeded at monitor well 2 and monitor well 3.
- 4. An abnormally rapid increase in the concentration of organic compounds in monitor well 3 occurred in May of 1980.
- 5. Monitor well 2 appears to be directly down-gradient in the groundwater flow path from the evaporation pond and therefore is a better indicator of the lagoon's influence on groundwater quality than is monitor well 3.
- 6. The discharge flow into the evaporation pond has been significantly reduced since December, 1980.

ABSOLITOR, NO DIOCO

RECOMMENDATIONS

A new set of water samples should be collected from the evaporation pond, the evaporation pond discharge and the monitor wells, to be tested for various chemicals that have been found in the ground water near the evaporation pond. It would be most effective to collect these samples near the end of the seasonal use of the evaporation pond. The results of these tests can be used to evaluate the present groundwater quality and whether any trends can be found in relationship to previous water quality test results. The depth to water should be measured in each monitor well before it is purged, when the samples are taken. A sample from the stream should be taken downstream of the evaporation pond to ascertain the impact, if any, of the seepage from the evaporation pond on the stream's water quality.

The above steps should indicate whether or not an additional monitor well is needed, such as if groundwater quality levels are found to be above the limits established by the NJDEP and/or the stream is found to be contaminated. If additional monitoring is required, monitor wells should probably be installed west of the evaporation pond to achieve a better understanding of the groundwater flow regime in the vicinity of the evaporation pond.

The above recommendations will provide a practical and economical means of determining the impact and extent of seepage from RFL's evaporation pond. We look forward to meeting with you to discuss our findings and recommendations in the near future.

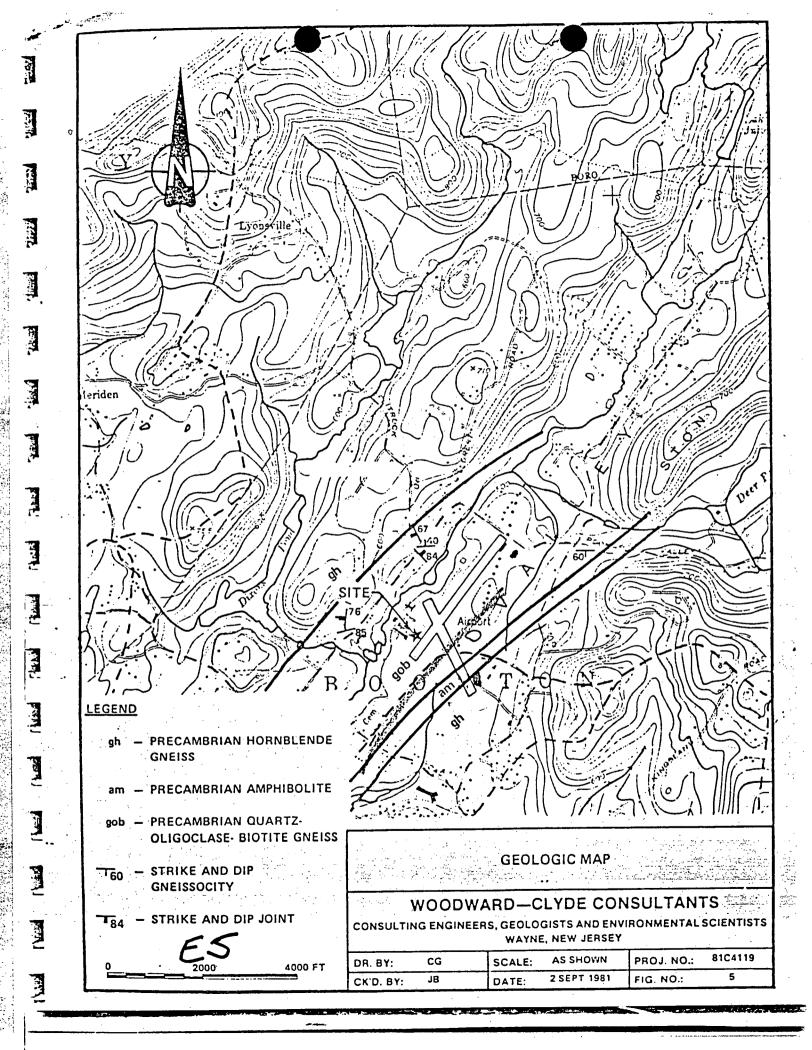
Sincerely,

GROUND/WATER TECHNOLOGY. INC.

William H. McTigue

Executive Vice President

WHM: law



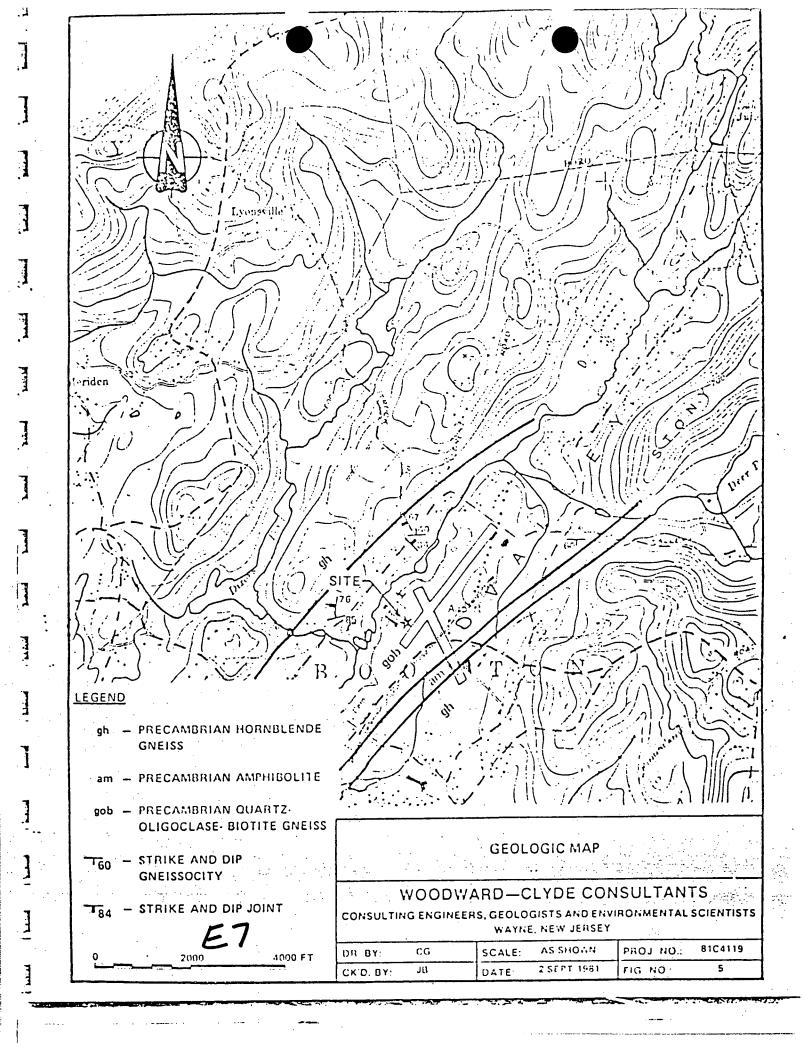
Sample source: RFL Industries, Inc., Boonton, New Jersey

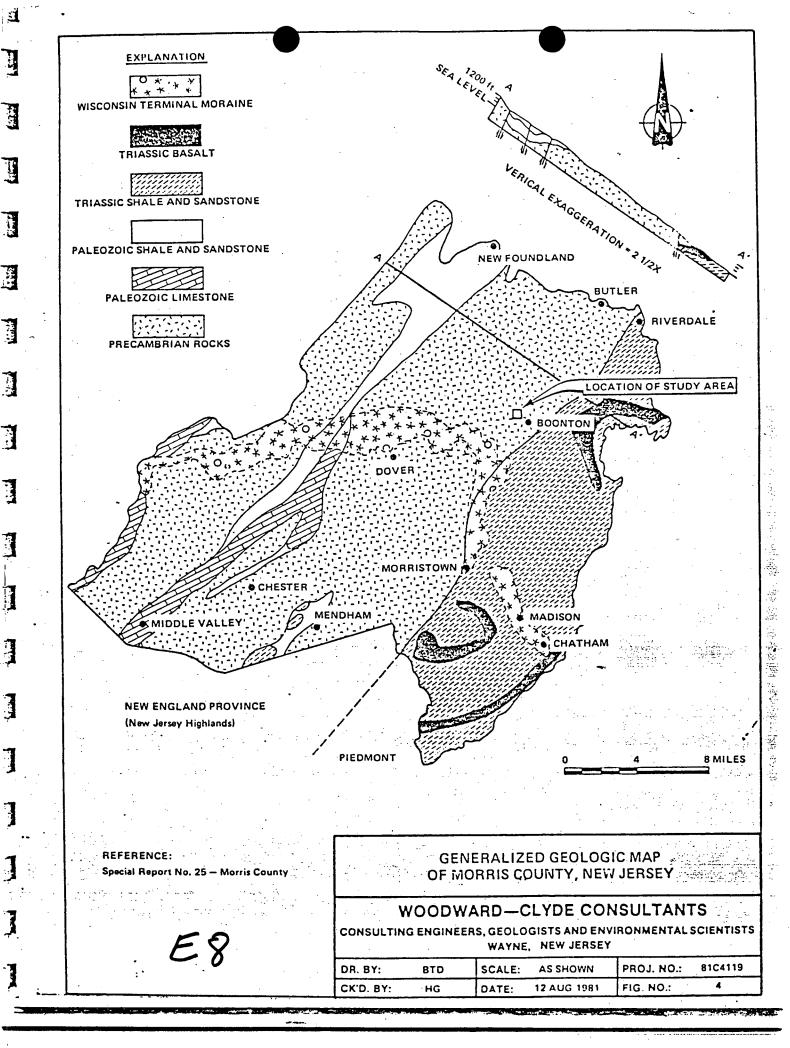
Sample date: May 1, 1981

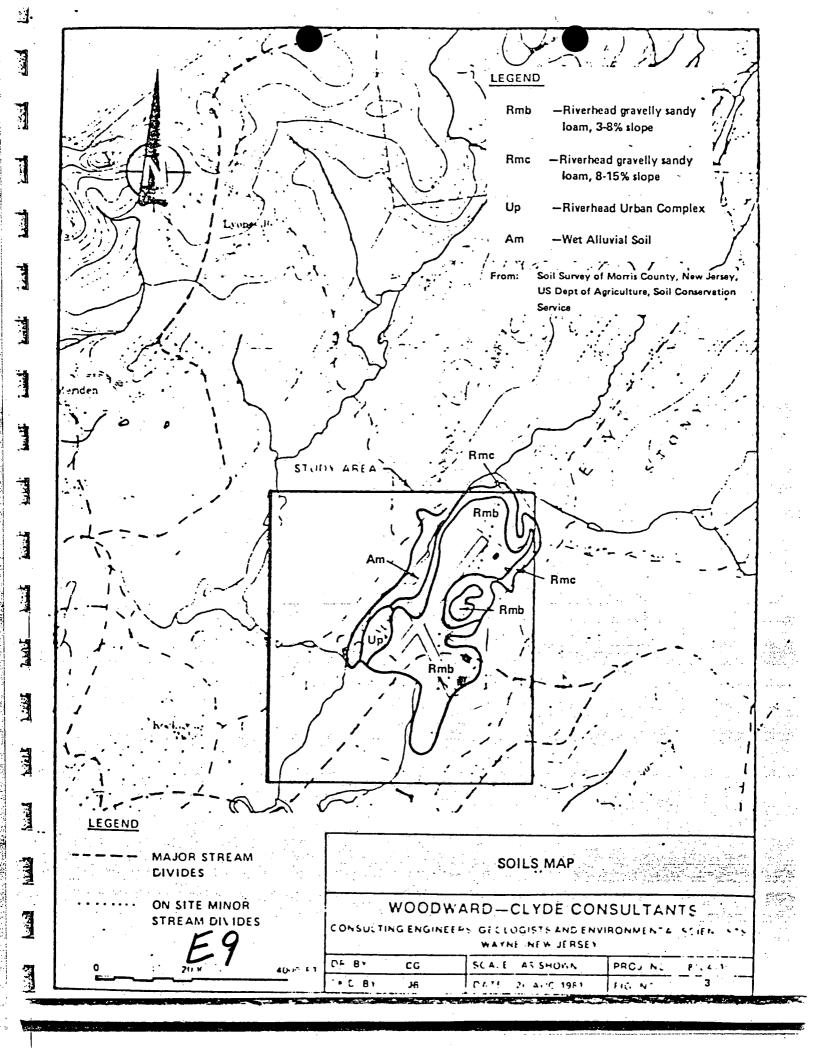
Taken by: ICM, Randolph, New Jersey

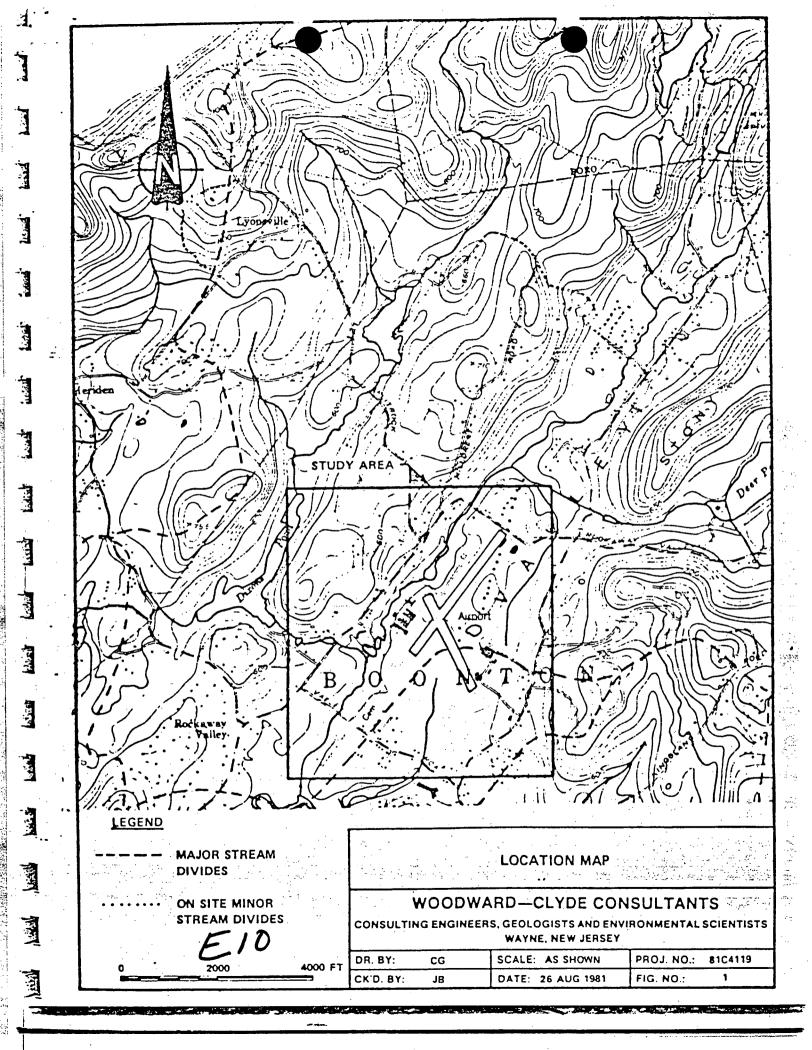
Tested by: ICM, Randolph, New Jersey

,	,	Results PPB	A Committee of the Comm
	Monitor Well (1)	Monitor Well (2)	Monitor Well (3)
0-xylene	ND	ND	ND
M-xylene	ND	ND	ИD
Tetrachloroethylene	ND	ND	ND
Ethyl benzene	ND	ND	ИD
Toluene	ND	ND	ND
1,1,2,2 tetrachloroethane	ND	ND	ND
Benzene	ND	ND	ND
Trichloroethylene	ND	5.6	49
Carbon tetrachloride	ND	ND	ND
1,1,1 trichloroethane	ND	3.4	21.3
1,2 dichloroethane	ND	ND	ND
Chloroform	ND	ND	ND
1,2 dichloroethylene	ND	3.7	3.3
1,1 dichloroethane	ND	2.7	27.2
1,1 dichloroethylene	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND
Methylene chloride	ND	ND	9 .8



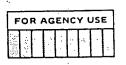












NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

STANDARD FORM C - MANUFACTURING AND COMMERCIAL

SECTION I. APPLICANT AND FACILITY DESCRIPTION

Unless otherwise specified on this form all Items are to be completed. If an item is not applicable indicate 'NA.'

ADDITIONAL INSTRUCTIONS FOR SELECTED ITEMS APPEAR IN SEPARATE INSTRUCTION BOOKLET AS INDICATED. REFER TO BOOKLET BEFORE FILLING OUT THESE ITEMS.

	Please Print or Type
1. Legal Name of Applicant 101 (see instructions)	R.F.C. INDUSTRIES INC.
2. Mailing Address of Applicant (see instructions) Number & Street 102a	POWERYILLE RD.
City '	BOONTON TOWNSHIP
State 102c	NEW VERSEV
ZIp Code 102d	07005
3. Applicant's Authorized Agent (see Instructions) Name and Title	NONE
Number & Street Address 103b	
City 103c	
State 103d Zip Code 103e	neceived.
Telephone 103f	
4. Previous Application	Area Number MAR 6.1 1979
If a previous application for a National or Federal discharge per- mit has been made, give the date of application. Use numeric designation for date. 104	NONE DEPT. ENVIRONMENTAL PROTECTION VR MO DAY NEWARK OFFICE
I certify that I am familiar with the information cor	ः। ntained in this application and that to the best of my knowledge and belief such information
is true, complete, and accurate.	
\supset \sim	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

Printed Name of Person Signing

Title

| 102e | VICE PESSIPACT ECERP. STITLING

| 102e | VICE PESSIPACT ECERP. STITLIN

18 U.S.C. Section 1001 provides that:

Whoever, in any matter within the jurisdiction of any department or agency of the United States knowingly and wilfully falsifies, conceals or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statement or representation, or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both.

	•	•		•		
Received .	YR MO I	DAY	FOR AGEN	ICY USE	OFFICE:E	PA Region Number
	YR MO	DAY			 عــــــ ، برسيد	late .

EPA Form 7550-23 (7-73)

ATTACHMENT L

I-1

This section contains 3 pages.

5.	Facility/Activity (see instructions) Give the name, ownership, and physical location of the plant or					FOR AGENCY USE	
	other operating facility where dis- charge(s) does or will occur.	4					
	Name	105a	R.F.L.	INDUSTRIES	NO.	· · · · · · · · · · · · · · · · · · ·	
	1		_TONNSH	IP OF BOOM	TTO AL		
			MERRIS C	dunty, NEI	V JERSEY	· · · · · · · · · · · · · · · · · · ·	
	Ownership (Public, Private or Both Public and Private)	105b	□PUB XPRV	ВРР		•	
	Check block if Federal Facility	105c	□ FED			•	
	and give GSA Inventory Control Number	105d	NA				
					•	•	
	Location		DOWER	VILLE RP.		•	
	Street & Number	105e		•			
	City	1051	BOCNIL	W			
	County	105g	MURRI			·	
	State	105h	NEW VE	ASEY	·		
			MANUFORT	URERS OF PA	DINTER CIA	CUT ROPPES	
6.	Nature of Business State the nature of the business conducted at the plant or operating facility.	1064		TION THERMOO	•	•	E)
			- 0511014		•	· ·	
	·	1065	AGENCY	USE			
						•	
	•						
7.	Facility Intake Water (see Instruc- tions) Indicate water Intake volume			•	· ·		
	per day by sources. Estimate average volume per day in thousand				•	•	
	gallons per day. Municipal or private water system	107a	NR	thousand gallons per da	av	•	
	•		11/0	thousand gallons per di			
	Surface water	1076	2:20		•		
•	Groundwater	107a	Sb, ECD	throusand gallons per di	ay — INTERMIIE	NT, SEE-ITEM 218	
	Other*	107d	NONE_	thousand gailons per d	ay		
	Total Item 7	107e	36,000_	th ousand g allons per d	ay	•	
	*If there is intake water from 'other,' specify the source.	1071	NONE				
8.	Facility Water Use Estimate average volume per day in thousand				•		
	gallons per day for the following				• .		•
	types of water usage at the facility. (see instructions)		• .				
:	Noncontact cooling water	1084	27,000	thousand gallons per d	av - NTERMITE	NT, SEE-ITEM ZIA	·
			طابه				
	Boller feed water	108b	19/77	thousand gallons per d	iay	· · · · · · · · · · · · · · · · · · ·	
	Process water (including contact cooling water)	108c	5000	t tomsand gallons per d	lay		,
	Sanitary water	108d	4000	- Mousand gallons per d	iay		
			11/2.		•		
	Other*	1086	_/V// //	thousand gallons per o	iay		
	Total Item 8	1086	36,000	. thousand gallons per c	day	The second secon	
- '						and the second of the second o	
	*If there are discharges to 'other,' specify.	1089	NONE		· · · · · · · · · · · · · · · · · · ·		•
	If there is 'Sanitary' water use, give the number of people served.	108h	300	people served			
• •	the state of the s						

	All Facility Discharges and other Losses; Number and Discharge (see						
	instructions) Volume Specify the number of discharge points and the					· <u>E</u>	
	volume of water discharged or lost from the facility according to					1,1	. • .
	the categories below. Estimate average volume per day in thousand		mber of scharge	Total Volume			` '
	gallons per day.		onarge Points todos	Thousand Gal	•	٠.	•
	Surface Water	109a1	10912				
	Sanitary wastewater transport system	10961	10962		·		٠,
	Storm water transport system	109c1	O 109c2				
	Combined sanitary and storm water transport system	10941	<i>O</i> 109d2				
	Surface impoundment with no effluent	109e1	0 10902				
	Underground percolation	109f1	10912	_27_	· ·		
	Well Injection	109g1	0 10992				
	Waste acceptance firm	109h1	O 109h2	-	·		
	Evaporation	10911	010912			٠,	
	Consumption	109]1	109 2	_ح_			
	Other*	109k1	O 109k2				
	Facility discharges and volume Total Item 9.	10911	3 10912	_36			
	*If there are discharges to 'other,' specify.	109m1	NONE	· · · · · · · · · · · · · · · · · · ·		•	· · · · · · · · · · · · · · · · · · ·
).	Permits, Licenses and Applications List all existing, pending or denied pe	ermits, licenses a	nd applications rela	ited to discharges	s from this facili	ty (see instruc	tions).
	Issuing Agency Use	Type of Permit or License	ID Number	Date Filed YR/MO/DA	Date Issued YR/MO/DA	Date Denied YR/MO/DA	Expiration Date YR/MO/DA
F	(a) (b)	(c)	(d)	(e)	(1)	(9)	(h)
ı		31	i	I	ì		1 1

	Issuing Agency	For Agency Use	Type of Permit or License	ID Number	Date Filed YR/MO/DA	Date Issued YR/MO/DA	Date Denied YR/MO/DA	Expiration Date YR/MO/DA
110_	(a)	(b)	(c):	(a)	(e)	(1)	(9)	(h)
1.	NONE							
2.								
						•	:	
3.			, .					
				•				

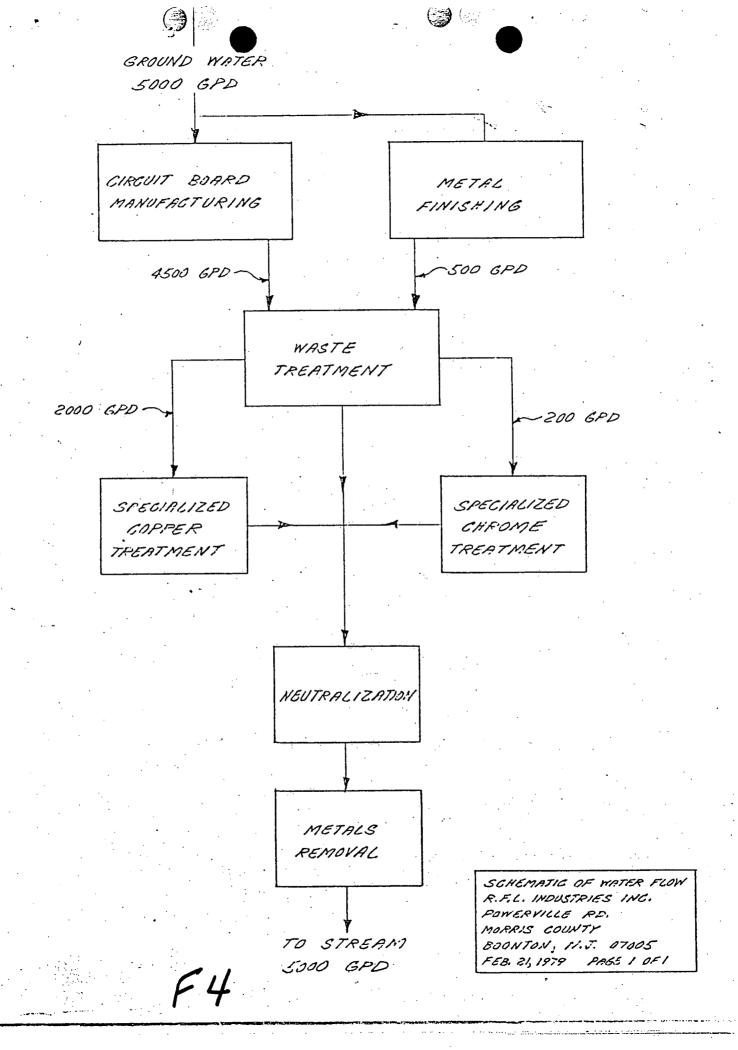
11. Maps and Drawings
Attach all required maps and drawings to the back of this application.(see instructions)

12.	Additional	Information
14.	Auditional	Tim Orima tion

112	Item Number	m Number Information							
	7,8+9	27,000 GFD INTERMITENT USED FOR AIR CONDITIONING FUL							
	·	PPERIOD OF 4 MONTHS AND AS DISCHPEGED INTO							
		GROUND PERCOLATION.							
•									

EPA Form 7550-23 (7-73)

F 3





FOR AGENCY USE

SCHED, NO.

STANDARD FORM C - MANUFACTURING AND COMMERCIAL

SECTION III. WASTE ABATEMENT REQUIREMENTS & IMPLEMENTATION (CONSTRUCTION) SCHEDULE

This section requires information on any uncompleted implementation schedule which may have been imposed for construction of waste abatement facilities. Such requirements and implementation schedules may have been established by local, State, or Federal agencies or by court action. In addition to completing the following items, a copy of an official implementation schedule should be attached to this application. IF YOU ARE SUBJECT TO SEVERAL DIFFERENT IMPLEMENTATION SCHEDULES, EITHER BECAUSE OF DIFFERENT LEVELS OF AUTHORITY IMPOSING DIFFERENT SCHEDULES (Item 1a.) AND/OR STAGED CONSTRUCTION OF SEPARATE OPERATION UNITS (Item 1c), SUBMIT A SEPARATE SECTION III FOR EACH ONE.

Improvements	300		
a. Discharge Serial Number	3012	001	
Affected List the discharge		<u> </u>	
serial numbers, assigned in			
Section II, that are covered by			
this implementation schedule.			
b. Authority Imposing Require-			
ments Check the appropriate			
item indicating the authority for			
Implementation schedule. If			
the identical implementation			
schedule has been ordered by			
more than one authority, check			
the appropriate items. (see			
instructions)		П	
Locally developed plan	301b	□LOC	
Areawide Plan		ARE	
Basic Plan		□BAS	
State approved implementa-			
tion schedule		- ∐sqs	
Federal approved water			
quality standards implementa-		_	
tion plan.		X wqs	
Federal enforcement proced-		•	
ure or action		□ENF ·	
State court order		CRT	
		∏FED	
Federal court order		D	
. c. Facility Requirement. Specify			•
the 3-character code of those		3-character	
listed below that best describes		(general)	
in general terms the require-		NEW	
ment of the implementation	301c	NEW	
schedule and the applicable six-			
character abatement code(s)			
from Table II of the Instruction	3014	6-character	
booklet. If more than one schedule applies to the facility		(specific)	
because of a staged construction		(see Table II)	
schedule, state the stage of con-		ESEPPR	
struction being described here			
with the appropriate general		CNEUTR	
action code. Submit a separate		1 .	
Section III for each stage of		PMIXED	
construction planned.		1	

No. of the contract of the con	
New Facility	NEW
Modification (no increase in capacity or treatment)	MOE
Increase in Capacity	INC
Increase in Treatment Level	INT
Both increase in Treatment Level and Capacity	ICT
Process Change	PRO
Elimination of Discharge	ELI

F5

III-1



2. Implementation Schedule and 3. Actual Completion Dates

Provide dates imposed by schedule and any actual dates of completion for implementation steps listed below. Indicate dates as accurately as possible. (see instructions)

Implementation Steps	2.	Schedule (Yr./Mo./Day)	3.	Actual Completion (Yr./Mo./Day)
a. Preliminary plan complete 3	02a	79, 7,15 303a		/
b. Final plan submission 39)2b	79,6,1 303b		
c. Final plan complete	D2c	303c		
d. Financing complete & contract awarded 3	D2d	// 303d		
e. Site acquired	020	//		//
f. Begin action (e.g., construction)	021	<u>80,4,/</u> 303f		//
g. End action (e.g., construction)	02g	80 19 130 3039		/
h. Discharge Began	02h	8 <u>6 , 9 ,30</u> 303h		
I. Operational level attained 3	021	8 <u>0 /// 30</u> 3031		/

FOR AGENCY USE							
					·		

SECTION II. BASIC DISCHARGE DESCRIPTION

Complete this section for each discharge indicated in Section I, Item 9, that is to surface waters. This includes discharges to municipal sewerage systems in which the wastewater does not go through a treatment works prior to being discharged to surface waters. Discharges to wells must be described where there are also discharges to surface waters from this facility. SEPARATE DESCRIPTIONS OF EACH DISCHARGE ARE REQUIRED EVEN IF SEVERAL DISCHARGES ORIGINATE IN THE SAME FACILITY. All values for an existing discharge should be representative of the twelve previous months of operation. If this is a proposed discharge, values should reflect best engineering estimates.

ADDITIONAL INSTRUCTIONS FOR SELECTED ITEMS APPEAR IN SEPARATE INSTRUCTION BOOKLET AS INDICATED. REFER TO BOOKLET BEFORE FILLING OUT THESE ITEMS.

1.	Discharge Serial No. and Name							
	a. Discharge Serial No. (see instructions)	201a	001		•			•
	 Discharge Name Give name of discharge, if any. (see instructions) 	201b						
**	c. Previous Discharge Serial No. If previous permit application was made for this discharge (see Item 4, Section I), provide previ- ous discharge serial number.	201c	<u>N/A</u> .					
2.	Discharge Operating Dates							
•	Discharge Began Date If the discharge described below is in operation, give the date (within best estimate) the discharge began.	202a	N/A YR MO					
	b. Discharge to Begin Date If the discharge has never occurred but is planned for some future date, give the date (within best esti- mate) the discharge will begin.	202ь	E0-9 YR MO					· .
•	c. Discharge to End Date If discharge is scheduled to be discontinued within the next 5 years, give the date (within best estimate) the discharge will end.	2026	N/A YR MO	-			· ·	
3.	Engineering Report Available Check if an engineering report is available to reviewing agency upon request. (see instructions)	203	- WILL	BÉ.	PVPILPBUE	JUNE	1979	
4.	Discharge Location Name the political boundaries within which the point of discharge is located.			·		·		Agency Use
	State	204a	N. J.				2044	187 (A.)
	County	204ь	MORRIS	:		٠	2046	-
		204c	•		BOONTON		·	
5.	(if applicable) City or Town Discharge Point Description Discharge is into (check one); (see instructions)						204f	
	Stream (includes ditches, arroyos, and other intermittent watercourses)	205a	STR					
	Lake	1	□LKE	. • .	ាស្ត្រ ១៩១៩ ខែការជាតិសេ ១៩៩៩ ១៩៩៩		Teg Tal	ering frank filologische George Samer in der Samer
•	Ocean		OCE					and the constitution of the control
	Municipal Sanitary Wastewater Transport System		□мтs		•			
	Municipal Combined Sanitary and Storm Transport System		□мсs				. * * · ·	•

3)

								•	FOR AGEN	CY USE
	Municipal Storm Water Transport									
	System	s					•			
	Well (Injection)		VEL			J	·	1. Jun 16	. •	
	Other		тн				1000	٠.		•
	If 'other' is checked, specify	205b					·····			
6.	Discharge Point — Lat/Long Give the precise location of the point of discharge to the nearest second.							. '		. •.
	Latitude _				<u>55</u> min					
	Longitude	206b	74 DE	.G 2	<u>.5</u> min	36 SEC	:			
7.	Discharge Receiving Water Name Name the waterway at the point of discharge (see instructions)	207a	وتتع وجم	ر الم	IRE P	2ND W	HIGH FL	ONS IN	TI)	
		1.000		بعم			· · · · - · · · · · · · · · · · · · · ·			
fall line	he discharge is through an out- that extends beyond the shore- or is below the mean low ter line, complete Item 8.	1	or Age	ncy Use	σ	76	For Agency 303e	Use		* . ·
_						•			-	
8.	Offshore Discharge a. Discharge Distance from Shore	208a	NÏA	fee	t			•		
	b. Discharge Depth Below Water Surface	2085	N/i	2fee	t					
9.	Discharge Type and Occurrence		٠.							
	Type of Discharge Check whether the discharge is con- tinuous or intermittent. (see instructions)	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ontinuot ermitter						
: ·	b. Discharge Occurrence Days per Week Enter the average num- ber of days per week (during periods of discharge) this dis- charge occurs.	2095 5	ays per	week				· · · · · · · · · · · · · · · · · · ·		
				• •		٠.				
•	c. Discharge Occurrence —Months If this discharge normally operates (either intermittently,	90.0000	1	¥ FEB	•	X APR				
	or continuously) on less than a year-around basis (excluding	L MARKET	•	X ากผ	φ. ∭λη∩Γ	ØAUG			•	
•	shuldowns for routine mainte- nance), check the months dur- ing the year when the discharge is operating. (see instructions))EP 9	рост	Хиоv	DEC				
rit	mplete Items 10 and 11 if "inter- itent" is checked in Item 9.a. herwise, proceed to Item 12.									
0.	Intermittent Discharge Quantity State the average volume per dis- charge occurrence in thousands of gallons.	210	N/A	tr	nousand gal	lons per dis	charge occur	rence.		· · · · · · · · · · · · · · · · · · ·
11.	Intermittent Discharge Duration					:				
	and Frequency a. Intermittent Discharge Duration Per Day State the average number of hours per day the discharge is operating.	2112 N/L	D hours	per day						
	 b. Intermittent Discharge Frequency State the average number of discharge occur- rences per day during days when discharging. 	2116 14	/ ⊉discha	arge occ	urrences pe	r day				
12.	Maximum Flow Period Give the time period in which the maximum flow of this discharge occurs.	212 Fro	m //	to .	nonth			•		

11-2

F	0	R A	٩G	ΕN	IC.	ΥI	US	E

13.	Activity Description Give a	
	narrative description of activit	ij
	producing this discharge (see	
	instructions)	

	MANUFACTURE OF PRINTED CIRCULIT BRARDS AND SURFACE FINISHING OF
	METRUIC PARTS.
•	
-	
-	
-	•

14. Activity Causing Discharge For each SIC Code which describes the activity causing this discharge, supply the type and maximum amount of either the raw material consumed (Item 14a) or the product produced (Item 14b) in the units specified in Table I of the Instruction Booklet. For SIC Codes not listed in Table I, use raw material or production units normally used for measuring production.(see instructions)

SIC 347/

a. Raw Materials

	SIC Code	• Name	Maximum Amount/Day	Unit (See Table I)	Shared Discharges (Serial Number)
142	1 (1) - 1/1 man a 2 (1)		(3)	(4)	(5)
	NA			•	

b. Products

	SIC Code	Name	Maximum Amount/Day	Unit (See Table 1)	Shared Discharges (Serial Number)
214b	(1)	(2)	- 1488 (3)	: (4)	(5)
	347/	GIRCUIT BERRIS	500	BOPKINS	001
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	• •	·	<u> </u>	·	



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15.	waste	Abatemen	τ

a. Waste Abatement Practices
Describe the waste abatement
practices used on this discharge
with a brief narrative. (see
instructions)

b. Waste Abatement Codes
Using the codes listed in Table
II of the Instruction Booklet,
describe the waste abatement
processes for this discharge in
the order in which they occur
If possible.

METPLS WILL	BE REMOVE	ED BY FI	<u>CERCIFIT.</u> UTRATION
		•	
(1) ESEFAR		<u> RE</u> . (3).	
(4) DRECCT	, (5) LOCA	<u> (6)</u>	REQUEL
(7) FSKIMC	_, (8) <u>PSE</u> F	P. (9)	PRIPTU
CALEUTE	_, (11) CCOA		
(10) 07/ 007			
(13) CFLOCC	_, (14) STHIS	(15)	





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			S 10. 20	S 100 S	See M	1.136		* * * *	

16. Wastewater Characteristics

Check the box beside each constituent which is present in the effluent (discharge water). This determination is to be based on actual analysis or best estimate (see instructions)

Parameter 216	Present	Parameter 216	Present
Color		Copper 01042	V
Ammonia 00610		lron 01045	V
Organic nitrogen 00605		Lead 01051	V
Nitrate 00620		Magnesium 00927	
Nitrite 00615		Manganese 01055	
Phosphorus 00665		Mercury 71900	
Sulfate 00945	/	Molybdenum 01062	
Sulfide 00745		Nickel 01067	V
Sulfite 00740		Selenium 01147	
Bromide 71870		Silver 01077	
Chloride 00940	/	Potassium 00937	
Cyanide 00720		Sodium 00929	V
Fluoride 00951	V	Thallium 01059	
Aluminum 01105	/	Titanium 01152	
Antimony 01097		Tin 01102	1
Arsenic 01002		Zinc 01092	
Beryllium 01012		Algicides* 74051	
Barium 01007		Chlorinated organic compounds* 74052	
Boron 01022		Pesticides* 74053	
Cadmium 01027		Oil and grease 00550	
Calcium 00916	/	Phenois 32730	
Cobalt 01037		Surfactants 38260	1
Chromium 01034	V	Chlorine 50060	∀
Fecal coliform bacteria 74055		Radioactivity* 74050	\top

^{*}Specify substances, compounds and/or elements in Item 26.

Pesticides (insecticides, fungicides, and rodenticides) must be reported in terms of the acceptable common names specified in Acceptable Common Names and Chemical Names for the Ingredient Statement on Pesticide Labels, 2nd Edition, Environmental Protection Agency, Washington, D.C. 20250, June 1972, as required by Subsection 162.7(b) of the Regulations for the Enforcement of the Federal Insecticide, Fungicide, and Rodenticide Act.

FII



17. Description of Intake and Discharge

For each of the parameters listed below, enter in the appropriate box the value or code letter answer called for.(see instructions)

In addition, enter the parameter name and code and all required values for any of the following parameters if they were checked in Item 16; ammonia, cyanide, aluminum, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, zinc, phenois, oil and grease, and chiorine (residual).

	· Influe	ent	Effluent						
Parameter and Code	Untreated Intake Water (Daily Average)	In-Plant Treated Dintake Water (Daily Average)	යි Daily Average	Minimum Value Observed or Expected During Discharge Activity	Maximum Value Observed or Expected During Discharge Activity	Frequency of Analysis	Number of Analyses	Sample Type	
Flow* Gallons per day 00056	5000 GAL	NA	5000 CAL	5000 GAL	5000 GPL	SEE ITEM 226		BBZ MBTI dSs	
pH Units 00400	6,3	NA		6,5	9.5	\)	V1	ı,	
Temperature (winter) ° F 74028	ડટ	NA	<i>5</i> 5	50	60	11	ıı	¥	
Temperature (summer) ° F 74027	58	NA	65	60	70	.(\	11		
Biochemical Oxygen Demand (BOD 5-day) mg/l 00310	3	NA	15	10	50	W.	``		
Chemical Oxygen Demand (COD) mg/l 00340	8	N/P	75	40	150	W	11	16	
Total Suspended (nonfilterable) Solids mg/l 00530	111	N/A	15	5	30	11	et	\t	
Specific Conductance micromhos/cm at 25° C 00095	130 SIEMEN	N/R		UNICHIUM	UNICHOWN	11	11	u	
Settleable Matter (residue) ml/I 00545	5	NA	,	0	3	٧.	,,	٠,	

^{*}Other discharges sharing intake flow (serial numbers).(see instructions)

F12

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					2000	388		***	

17. (Cont'd.)

	Influ	ient			Effluent		
Parameter and Code	Untreated Intake Water (Daily Average)	In-Plant Treated	© Daily Average	Minimum Value Observed or Expected During Discharge Activity	Maximum Value Observed or Expected During Discharge Activity	Frequency of Analysis	S Sample Type
					•		
,							
N							

18. Plant Controls Check if the following plant controls are available for this discharge.

Alternate power source for major pumping facility.

Alarm or emergency procedure for power or equipment failure

Complete item 19 if discharge is from cooling and/or steam water generation and water treatment additives are used.

- Water Treatment Additives If the discharge is treated with any conditioner, inhibitor, or algicide, answer the following:
 - a. Name of Material(s)
 - Name and address of manufacturer
 - Quantity (pounds added per million gallons of water treated).

218	•	
	☐ APS	
	XALM	
219a	N/A	
		The state of the s
219b	- <i>N/P</i>	rangan kanangan kana
	<u> </u>	
219c	N/A	

F13

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 d. Chemical composition of these additives (see instructions).

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f		- 10		2.5	

NA

Complete items 20-25 if there is a thermal discharge (e.g., associated with a steam and/or power generation plant, steel mill, petroleum refinery, or any other manufacturing process) and the total discharge flow is 10 million gallons per day or more. (see instructions)

20. Thermal Discharge Source Check the appropriate item(s) Indicating the source of the discharge. (see instructions)

Boiler Blowdown

Boiler Chemical Cleaning

Ash Pond Overflow

Bóiter Water Treatment — Evaporator Blowdown

Oil or Coal Fired Plants — Effluent from Air Pollution Control Devices

Condense Cooling Water

Cooling Tower Blowdown

Manufacturing Process

Other

21. Discharge/Receiving Water Temperature Difference

Give the maximum temperature difference between the discharge and receiving waters for summer and winter operating conditions, (see instructions)

Summer

Winter

22. Discharge Temperature, Rate of Change Per Hour

Give the maximum possible rate of temperature change per hour of discharge under operating conditions. (see instructions)

23. Water Temperature, Percentile Report (Frequency of Occurrence) In the table below, enter the temperature which is exceeded 10% of the year, 5% of the year, 1% of the year and not at all (maximum yearly temperature). (see instructions)

Frequency of occurrence

- a. Intake Water Temperature (Subject to natural changes)
- b. Discharge Water Temperature
- 24. Water Intake Velocity (see instructions)
- 25. Retention Time Give the length of time, in minutes, from start of water temperature rise to discharge of cooling water. (see instructions)

220

BCCL

□APOF □EPBD

U.- ·

OCFP

COND

СТВО

MFPR

OTHR

221a _____OF

221b _____OF

222 _____OF./hour

 10%
 5%
 1%
 Maximum

 . o_F
 . o_F
 . o_F
 . o_F

 . o_F
 . o_F
 . o_F
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____feet/sec.

____minutes

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223b

224

225



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26. Additional Information

226	Item ·	Information								
	2176	ALL ITEMS PRE ESTIMATED FOR FUTURE DISCHARGE								
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EPA Form 7550-23 (7-73)





100 Stickle Avenue P.O. Box 316 Rockaway, New Jersey 07866 (201) 625-5558 or (201) 627-2100

February 20, 1987

Mr. Henry Schuver New Jersey Department of Environmental Protection Ground Water Quality Control Section CN 029 Trenton, New Jersey

Reference: NJPDES Permit #NJ0099104

Dowty RFL Industries Boonton, New Jersey

Dear Mr. Schuver:

As per our telephone conversation of 2/19/87, regarding the 2/3/87 letter from NJDEP to Mr. Jack Slater of Dowty RFL denying termination of their NJPDES permit, we request that monitoring requirements be revised to reduce both the number locations being monitored and the parameters to be analyzed.

Currently, Dowty RFL collects samples from four monitor wells and The former lagoon was closed at three surface water locations. and sediments were removed in December 1985. One monitor well is located upgradient of the old lagoon location, One surface water sample downgradient. hvdraulically collected upgradient where the stream enters onto Dowty Another surface water sample is collected immediately downgradient of the old lagoon, the third is located where the stream crosses Valley Road (about 2100 feet downstream).

The flow direction of contamination is apparently from the old lagoon past monitor well MW#2 and directly into the drainage Occasionally low levels of volatiles have been analyzed from the stream location immediately downgradient of the old However, all trace of volatiles have been removed from the stream, apparently by natural agitation in the flow, by the time the water reaches Valley Road, thereby posing no health risk to downstream users.

Prior to lagoon closure, contamination levels had decreased to only minor concentrations of total volatile organics (VO's) in The analysis of 11/26/85 indicated a concentration of 13ppb(VO's). The analyses of 1/23/86, after closure, indicated Apparently as a result of closure a 18ppb(VO's). contamination was generated and concentrations increased to 90ppb(VO's) on 4/11/86. After that peak, the concentration again steadily decreased with time to 56ppb(VO's) on 7/18/86 and

ATTACHMENT _____

finally to 11ppb(VO's) on 10/10/86. On 10/10/86 the only volatile component testing positive was Trichloroethylene (TCE).

During this entire year there has been no indication of volatiles present in wells MW#1, MW#3, or MW#4. We therefore request the following monitoring changes be approved:

- Limit the parameters to be tested to volatile organic compounds only.
- Since the compound of interest is known, ie., TCE, testing by GC only is proposed since the sensitivity is greater as well as the analytical cost being significantly lower.
- Since monitor wells Mw#3 and Mw#4 have not shown any volatile organic contamination for the past year we request that they be removed from the required monitoring.
- Since no volatile contamination has been seen at the Downstream Valley Road location, we request that it too be removed from the required monitoring.
- Monitoring of wells MW#1 and MW#2 as well as the upstream and the one downstream location would continue, except that only testing for volatile organics by GC methods is proposed.

We feel that these revisions to the monitoring program are reasonable based upon the experience and history of water quality testing gained on site since 1979. Attached is a copy of the latest groundwater contour map (10/10/86) showing the location of the monitor wells, stream sammpling points and proposed changes.

We thank you for your willingness to consider modifications to the sampling program. Should you require further information or wish to discuss this request please contact me at either (201)625-5558 or (201)627-2100.

Very truly yours,

GROUND/WATER TECHNOLOGY, INC.

Gary J. Cluen Project Manager

GJC:kb

cc: Mr. Jack Slater, Dowty RFL

Mr. James Groome, NJDEP-BCM

Mr. Kevin Krause, NJDEP-BFO



Etate of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES

CN 029 TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E.
DIRECTOR

DIRK C. HOFMAN, F DEPUTY DIRECTO

Mr. E. J. Slater, Manager Dowty-RFL Industries, Inc. Powerville Road Boonton, New Jersey 07005-0239

FEB 0 3 1987

RE: Requested termination of NJPDES permit # NJ0099104

Dear Mr. Slater:

Based on a review of ground water monitoring data obtained since closure of the hazardous waste lagoon, the Department does not believe that termination of your NJPDES permit as requested by Gary Cluen of Ground/Water Technology, Inc. in a letter dated December 23, 1986, is appropriate at this time.

Although the number, and, to some extent, the levels contaminants in the ground water downgradient of the lagoon area have decreased since its closure, the levels of some contaminants remain above those recommended by the NJDEP for ground water. particular, trichloroethylene (TCE) a listed carcinogen, has a maximum acceptable limit of 5 ppb in ground water. consistently exceeded this level in every sample from well (immediately downgradient of the former lagoon Additionaly, TCE has not been detected at any level in well (immediantly upgradient of the closed lagoon area). reasons stated above the request For to terminate Industries NJPDES Permit # NJ0099104 is being denied.

At least four additional quarters of monitoring should be completed before permit termination may again be requested. If you have any questions or comments contact Henry Schuver of my staff at (609) 292-8427.

Sincerely,

Ken Siet, Chief

Ground Water Quality Control Section

WQM239

Cc: Mr. James Groome - NJDEP - BCM
Mr. Gary Cluen - Ground/Water Technology, Inc.
Lori Amato - USEPA Region II- NJ Permitting

ATTACHMENT H

New Jersey Is An Equal Opportunity Employer



TO	DISTRIB	UTION LIST				
FROM	MELINDA	DOWER	THROUGH B	. Berg,	DATE	MAY 0 2 1984
	Supervi	sor, Land <i>I</i>	Application	n or Wast	ewater,	
SUBJE	CT DOWTY	RFL IND	USTICIES/	BOONTO	N. N.J/NJC	099104

Attached please find an Initial Interim IWMF or HWF NJPDES permit drafted pursuant to the State Water Pollution Control Act and the RCRA regulations as delegated to the State effective February 2, 1983.

This permit is required by the delegation agreement with the USEPA signed by Commissioner Hughey. These are high priority facilities. For this reason we are requesting that you review these draft permits within five (5) working days of the date of this memo or we will issue it as it is.

WQM65:1jp Attachment DISTRIBUTION LIST

George McCann, Assistant Director, Enforcement, DWR Paul Kurisko, Chief, Industrial Waste Management, DWR Frank Coolick, Chief, Bureau of Hazardous Engineering, DWM

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New Jersey Pollutant Discharge Elimination System

The New Jersey Department of Environmental Protection hereby restricts and controls the discharge of pollutants to waters of the State from the subject facility/activity in accordance with applicable laws and regulations. The permittee is responsible for complying with all terms and conditions of this authorization and agrees to said terms and conditions as a requirement for the construction, installation, modification or operation of any facility for the collection, treatment or discharge of any pollutant to waters of the State.

PERMIT NUMBER NJ0099104

Permittee
RADIO FREQUENCY LABORATORIES
POWERVILLE ROAD
BOOTON, NJ 07005

Property Owner

DOWTY RFL INDUSTRIES, INC.
POWERVILLE ROAD
BOONTON, NJ 07005

Location of Activity
RADIO FREQUENCY LABORATORIES
POWERVILLE ROAD
BOOTON, NJ 07005

Co-Permittee

Type of Permit Covered Issuance Effective Expiration
By This Approval Date Date

I:Infilt/Perc. Lagoon - Ind. 2/29/88 3/29/88 3/28/93

By Authority of: George G. McCann, P.E. Director Division of Water Resources

DEP AUTHORIZATION

Arnold Schiffman, Administrator

Water Quality Management

(Terms, conditions and provisions attached hereto)

State of New Jersey Department of Environmental Protection/Division of Water Resources

NJPDES



STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF AUTHORIZATION



PERMIT NO. NJ0099104

ISSUANCE DATE

11/6/84

12/15/84

EXPIRATION DATE

12/14/87

ISSUED TO

Dowty RFL Industries, Inc.

Powerville Road

Boonton, NJ 07005

FOR ACTIVITY/FACILITY AT

Powerville Road

Boonton Twp., Morris County Block 12. Lots 20 and 24 OWNER

SAME AS APPLICANT

ISSUING DIVISION

☑ Water Resources

☐ Coastal Resources

☐ Environmental Quality

TYPE OF PERMIT

NJPDES INITIAL INTERIM

PERMIT TO MONITOR GROUND

WATER - IMT

STATUTE(S)

APPLICATION NO.

N.J.S.A.

58:10A-1 et seq.

N/A

N.J.A.C.

7:14A-1 et seq.

A PERMIT TO implement closure and monitor the ground water quality surrounding a 0.1 acre infiltration/percolation lagoon which was used to dispose of process waste water generated from the manufacture of printed circuit boards and from surface finishing of aluminum and steel parts for a period of approximately ten years. All discharges to the lagoon ceased as of July 1, 1983.

BY AUTHORITY:

JOHN W. GASTON, JR., P.E.

DIRECTOR

DIVISION OF WATER RESOURCES

DEP AUTHORIZA

Form DEP-008

THIS NOTICE MUST BE CONSPICUOUSLY DISPLAYED AT THE ACTIVITY FACILITY SITE.

ATTACHMENT JT



CN 402 Trenton, N.J. 08625

PERMIT





The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to the further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit. Effective Date Expiration Date Issuance Date Permit No. 12/15/84 12/14/87 11/6/84 NJ0099104 Name and Address of Owner Location of Activity/Facility Name and Address of Applicant Powerville Road Dowty RFL Industries, Inc. Boonton Twp., Morris County Powerville Road SAME AS APPLICANT Block 12, Lots 20 and 24 Boonton, NJ 07005 Statute(s) N.J.S.A. Application No. Type of Permit Issuing Division INITIAL INTERIM NJPDES PERMIT TO | 58:10A-1 et seq. N/A WATER RESOURCES MONITOR GROUND WATER - IWMF N.J.A.C.

7:14A-1 et seq. This permit requires Dowty RFL Industries, Inc. to monitor the ground water quality by operating and maintaining 4 ground water monitoring wells according to the specific and general conditions of this Initial Interim NJPDES Permit. The Initial Interim NJPDES Permit is intended to establish an adequate ground water monitoring program at the above named facility. This permit is only intended to obtain ground water data to evaluate the current status and impact of this facility on ground water. It shall not be construed, nor is it intended to be an approval of any activity that the permittee has conducted which adversely effects the environment, ground or surface water quality, or threatens the public health, safety, or welfare.

The issuance of this Intial Interim Permit does not indicate that the Department has made a determination of the technical adequacy of the information available. Initial Interim permits shall not be construed as, nor are they intended to be, long-term approvals; these permits are of limited duration.

The data generated through the Initial Interim NJPDES Permit will be used by the Department to evaluate the current status and impact of existing facilities on ground water quality. It will also give the Department information to determine if there is any potential or actual threat to public health or safety or damage to the environment due to current or past practices. Based on the information generated by the issuance of this Permit, the Department may require the permittee to reduce the quantity of discharge, upgrade or install additional treatment, install additional monitor wells, conduct ground water decontamination procedures or cease discharges to waters of the State.

The issuance of this Initial Interim NJPDES Permit does not bind the Department to renew this Permit, nor does it relieve the permittee of the duty to submit additional information as specified in Chapters 6 and 10 of the NJPDES regulations at the time of application renewal or as may be required by the Department prior to permit renewal. Additionally, this Initial Interi NJPDES Permit does not relieve the permittee of any liabilities associated with public health or safety problems or environmental damage created as a result of the permittee's activities.

Documents attached hereto shall become part of this Permit.

Approved by the Department of Environmental Protection BY AUTHORITY OF:

JOHN W. GASTON, JR., P.E.

DIRECTOR

DIVISION OF WATER RESOURCES

ARNOLD SCHIFFMAN, ADMINISTRATOR WATER QUALITY MANAGEMENT

11/6/84

^{*} The word permit means "approval, certification, registration, etc."

New Jersey partment of Environmental otection
Division of Water Resources
Ground Water Discharge Permits
CN-029
Trenton, N.J. 08625
(609) 292-0424

Public Notice

NOTICE:

ISSUANCE OF DRAFT INITIAL INTERIM NJPDES PERMIT

NJ0099104

Notice is hereby given of the Department's intent to issue:

Dowty RFL Industries, Inc. Powerville Road Boonton, NJ 07005

a draft Initial Interim IWMF New Jersey Pollutant Discharge Elimination System (NJPDES) permit to implement closure and monitor the ground water quality surrounding a 0.1 acre infiltration/percolation lagoon which was used to dispose of process waste water generated from the manufacture of printed circuit boards and from surface finishing of aluminum and steel parts for a period of approximately ten years. All discharges to the lagoon ceased as of July 1, 1983.

For an existing facility, issuance of the NJPDES permit is the enforcement mechanism by which pollutant discharges are brought into compliance with standards.

This notice is being given to inform the public that NJDEP has prepared a draft NJPDES permit. This draft permit contains conditions necessary to implement the provisions of the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System" (N.J.A.C. 7:14A-1 et seg), which were promulgated pursuant to the authority of the New Jersey "Water Pollution Control Act" (N.J.S.A. 58:10A-1 et seg.).

The draft permit prepared by NJDEP is based on the administrative record which is on file at the offices of the NJDEP, Division of Water Resources, located at 1474 Prospect Street in the Township of Ewing, Mercer County, New Jersey. It is available for inspection, by appointment, between 8:30 a.m. and 4:00 p.m., Monday through Friday. Appointments for inspection may be scheduled by calling (609) 984-4428.

Interested persons may submit written comments on the draft permit to the Administrator, Water Quality Management, at the address cited above. All comments shall be submitted within 30 days of the date of this public notice. All persons, including applicants, who believe that any condition of this draft permit is inappropriate or that the Department's tentative decision to issue this draft permit is inappropriate, must raise all reason-

ably ascertainable sues and submit all real ably available arguments and factual grounds supporting their position, including all supporting material, by the close of the public comment period. All comments submitted by interested persons in response to this notice, within the time limit, will be considered by the NJDEP with respect to the permit application. At the close of the public comment period, the Department will issue or deny the permit. The Department will respond to all significant and timely comments when a final permit is issued. The applicant and each person who has submitted written comments will receive notice of NJDEP's final decision.

Any interested person may request in writing that NJDEP hold a nonadversarial public hearing on the draft permit. This request shall state the nature of the issues to be raised in the proposed hearing and shall be submitted within 30 days of the date of this public notice to the Administrator, Water Quality Management at the address cited above. A public hearing will be conducted whenever the NJDEP determines that there is a significant degree of public interest in the permit decision. If a public hearing is held, the public comment period in this notice shall automatically be extended to the close of the public hearing.

Arnold Schiffman Administrator Water Quality Management

WQM73/RB

"GENERAL CONDITIONS FOR ALL NJPDES DISCHARGE PERMITS"

To Be Inserted Here.

The requirements for the following "fill-in-the-blank" items are as follows:

Section 16 - The plant operator shall have a NA classification.

Section 26A -The permittee may request an exemption from the emergency plan report requirement within 6 months EDP.

- A1. All floor drains throughout the facility which previously discharged to the lagoon shall be sealed within 30 days EDP.
- A2. All surface water monitoring will continue in accordance with the Administrative Consent Order of July 15, 1983 between Dowty RFL Industries and NJDEP.

SPECIAL CONDITIONS FOR CLOSURE OF INDUSTRIAL WASTE MANAGEMENT FACILITIES

- B1. The closure shall conform to N.J. Hazardous Waste Requirements, N.J.A.C. 7:26-1,4,7-12; specifically 7:26-9.5 Ground Water Monitoring System and 7:26-9.8 General Closure Requirements.
- B2. The permittee shall follow the specifications of the "Closure Plan, RFL Industries, Inc. NJ0099104" dated Dec. 1,1983 (hereafter referred to as the "approved closure plan") with the following additional requirements and clarifications:
 - a. Waste Sampling and Categorization
- All tests to be performed on water, sludge and soil samples shall be done in accordance with the requirements of DEP's Division of Waste Management, Bureau of Hazardous Waste Classification and Manifest (BHWCM) to determine whether the material is hazardous. The permittee shall send copies of any and all sample analyses and determinations made by the BHWCM as soon as they are available to the Division of Water Resources, Bureau of Ground Water Discharge Permits.
 - b. Free Standing Liquids

Three (3) samples shall be analyzed to determine whether the liquid in the lagoon is hazardous (according to the requirements of DEP's BHWCM). If the liquids are hazardous, they shall be removed to a State-approved TSD facility. If they are non-hazardous, they can be removed to a POTW for disposal. The liquids shall not be discharged to the "ground surface".

c. Waste Residues (Sludge)

Three (3) samples (as described in the approved closure plan) shall be analyzed to determine whether the sludge in the lagoon is hazardous (according to the requirements of DEP's BHWCM). All sludge in the lagoon must be removed to a TSD facility prior to closure and backfilling, whether it is hazardous or not. A suitable method to control free liquids during excavation and closure must be used by the permittee and/or his contractor. If the existing sludge in the lagoon cannot be made pumpable by resuspension or other means, then some type of sorbent must be applied to the sludge so that it can be removed as a solid to lined dump trucks or other water-tight

d. Contaminated Soils

Three (3) core samples shall be taken from the lagoon bottom, at least one of which must be taken through the downgradient side of the dike/berm and underlying soils. The soils shall be tested and classified in accordance with the requirements of the BHWCM. If the soils prove to be non-hazardous, they can be left in place. If they are hazardous, they shall be removed to a TSD facility.

- e. Equipment decontamination and final closure procedures shall be done as described in the approved closure plan.
- f. Post closure maintenance shall consist of the care and renovation of the cover material as necessary to prevent erosion. The site shall be inspected monthly by facility personnel and repairs to the site shall be made as needed.
- B3. The Department maintains the right to inspect the site during and after implementation of the approved closure plan at any reasonable time to assure compliance with permit conditions.
- B4. The permittee shall submit a complete application for renewal of this permit 180 days prior to the expiration date of this permit.
- B5. A New Jersey registered Professional Engineer shall inspect the final closure activities no less than once every two weeks and at the completion of all closure activities. All certifications shall be submitted to the Department within seven (7) days after completion and shall be addressed to:

NJDEP/Division of Water Resources Bureau of Ground Water Discharge Permits P.O. Box CN-029 Trenton, N.J. 08625

- B6. Final closure of RFL's lagoon shall take place no later than Dec. 1, 1984.
- B7. If State ground water quality standards or permit conditions are violated (specifically Table 3 of this permit) or a statistically significant difference between up and down gradient wells occurs, RFL shall submit a plan of remedial measures to be taken to remove the contamination. This plan

shall be submitted within 60 days of the reported violation.

B8. Ground water monitoring shall be as specified in Table 3. Monitoring shall continue following closure for a period of not less than one year, or until ground water quality standards have been achieved in all monitor wells for a period of one year.

TABLE 1

MONITORING PARAMETERS TO BE UTILIZED IN ESTABLISHING THE SUITABILITY OF THE GROUND WATER AS A DRINKING WATER SUPPLY

Parameter	Sampling Frequency
Arsenic (As) Barium (Ba) Cadmium (Cd) Chromium (Cr) Fluoride (F) Lead (Pb) Mercury (Hg) Ammonium Nitrogen (NH ₄ -N) Nitrate Nitrogen (NO ₃ -N) Silver (Ag) Iron (Fe) Sodium (Na) Sulfate (SO ₄) Chloride (Cl) Phenols Total Dissolved Solids Total Volatile Organics by GC/MS Scan	Semi-annually Semi-annually Semi-annually Quarterly Semi-annually Quarterly Semi-annually Quarterly Semi-annually Semi-annually Semi-annually Semi-annually Semi-annually Quarterly Semi-annually Quarterly Quarterly Quarterly Quarterly Quarterly

TABLE 2

MONITORING PARAMETERS TO BE UTILIZED AS INDICATORS OF GROUND WATER CONTAMINATION

	Parameter	Sampling Frequency
1)	pH	Quarterly
2)	Specific Conductance	Quarterly
3)	Total Volatile Organics	Quarterly
	by GC/MS Scan	

Table 3 Ground Water Monitoring Requirements and Limitations for Initial Interim NJPDES Permits for Industrial Waste Management Facilities and Hazardous Waste Interim Status Facilities

The Permittee shall install and sample a total of 4 ground water monitoring wells according to the schedule below. All ground water elevations must be determined prior to pumping and sampling the ground water monitoring wells. Sampling of the ground water monitoring wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and the Department's Field Procedures Manual for Water Data Acquisition. The Permittee shall sample for all parameters for which there is an "X" to the left of the parameter name. Sampling shall be performed during the months which are specified for that parameter.

			SAMPLING		REPORTING
PARAMETER	LIMITA	TION	MONTH	SAMPLE TYPE	MONTH
Aldrin/Dieldrin	0.003	ppb	JanAprJul0ct	Grab	FebMayAugNov
X Ammonia Nitrogen	0.5	ppm	TanApr(u)Oct	Grab	Fel May Aug Nov
X Arsenic and Compounds	0.05	ppm ·	Jan Apr Un Oct	Grab	FebMa AugNov
X Barium	1.0	ppm	Jan Apr (u) Oct	Grab	FeBMay Quanov
Benzidine	0.1	ppb	JanAprJu10ct	Grab	FebMayAugNov
Biochemical Oxygen Demand		•		• •	· 67 2 2
(BOD)		ppm	JanAprJulOct	Grab	FebMayAugNov
X Cadmium	0.01	ppm	TanApr TullOct	Grab	FebMayAugNov
Calcium		ppm	JanAprJul0ct	Grab	FebMayAugNov
Chemical Oxygen Demand (COD)		ppm	JanAprJulOct	Grab	FebMayAugNov
X Chloride	250	ppm	ClanApp Ju 10cg	Grab	Ee May Aug Nov
X Chromium (Hex) & Compounds	0.05	ppm	Janapp (ulOct)	Grab	FelMayAugNov
Coliform Bacteria	(1)		JanAprJu10ct	Grab	FebMayAugNov
Color	Unnoti	ceable	JanAprJulOct	Grab	FebMayAugNov
X Copper	1.0	ppm	TanApr Tu Doct	Grab	TebMayAua Nov
X Cyanide	0.2	ppm	Jan Apr Jul Oct	Grab	FebMay Aug Nov
DDT & Metabolites	.001	ppb	JanAprJu10ct	Grab	FebMayAugNov
Endrin	0.004	ppb	JanAprJu10ct	Grab	FebMayAugNov
Fecal Coliform	(1)		JanAprJul0ct	Grab	FebMayAugNov
X Fluoride	2.0	ppm	(anAprilu)Oct	Grab	FebMayAugNov
Foaming Agents	0.5	ppm	JanAprJu10ct	Grab	FebMayAugNov
Gross Alpha	15 p	Ci/1	JanAprJu10ct	Grab	FebMayAugNov
Gross Beta	4milre	m/yr	JanAprJu10ct	Grab	FebMayAugNov
Hardness		ppm	JanAprJulOct	Grab	FebMayAugNov
XIron	0.3	ppm	(an) pr(ul) ct	Grab	FebMay Aug Nov

GROUND WATER MONITORING REQUIREMENTS AND LIMITATIONS - Page 2

			SAMPLING		REPORTING
PARAMETER	LIMITA	ATION	MONTH	SAMPLE TYPE	MONTH
Kjeldahl Nitrogen		ppm	JanAprJul0ct	Grab	FebMayAugNov
X Lead and Compounds	0.05	ppm	JanAprilu De	Grab	rebMay AugNov
Lindane	4	ppb	JanAprJu10ct	Grab	FebMayAugNov
Magnesium		ppm	JanAprJulOct	Grab	FebMayAugNov
Manganese	0.05	ррm	JanAprJ <u>u</u> lOct	Grab	FebMayAugNov
X Mercury and Compounds	0.002	.ppm	JanAprolu Doct	Grab	FeDMayAug Nov
Methoxychlor	100	ppb	JanAprJu10ct	Grab	FebMayAugNov
X Nitrate Nitrogen (NO ₃ -N)	10	ppm	QanAprilu10cb	Grab	FebMayAugNor
Odor and Taste	Unnot	iceable	JanAprJul0ct	Grab	FebMayAugNov
Oil and Grease	10	ppm	JanAprJul <u>Oc</u> t	Grab	FebMayAugNov
ХрН	5-9	รับ	Janaprilu Och	Grab	rebMay AugNov
X Phenols	0.3	PPm	JanApr Jul Oct	Grab	Feb May Aug Nov
X Phosphate, Total		ppm	and pruly co	Grab	ebMay Aug Nov
Polychlorinated Biphenyls				•	
(PCBs)	0.001	ppb	JanAprJu10ct	Grab	FebMayAugNov
Radionuclides	(2)		JanAprJu10ct	Grab	FebMayAugNov
Radium	5	pCi/1	JanAprJu10ct	Grab	FebMayAugNov
Selenium and Compounds	0.01	p .pm	JanAprJu10ct	Grab	FebMayAugNov
X Silver and Compounds	0.05	ppm	(anAprilu)Oct	Grab	FebMay Aug Nov
X Sodium	50	ррm	(an)Apr (u)Oct	Grab	(FeBMay Aug Nov
X Specific Conductance	(umh	o/cm)	Jan Appelu RDC	Grab	(Feb la Aug No)
X Sulfate	250	ррm	JanApr (u)Oct	Grab	FebMayAugNov
X Total Dissolved Solids (TDS)	500	ppm	JanAphJu Oct	Grab	Fel May Aug Toy
Total Organic Carbon (TOC)		ppm	JanAprJul0ct	Grab	FebMayAugNov
Total Organic Halogen					
(TOH or TOX)		ppm	JanAprJu10ct	Grab	FebMayAugNov
X Total Volatile Organics by				,	
GC/MS Scan (3)	50	ppb	Tanapplu Oct	Grab	FebMayAugNoy
Toxaphene	5	ppb	JanAprJu10ct	Grab 🖟	FebMayAugNov
Turbidity		ррm	JanAprJu10ct	Grab	FebMayAugNov
X Zinc and Compounds	5	pp m	(lanApr(lu)Oct	Grab	ebMa Aughov
2,4-D	100	ppb	JanAprJu10ct	Grab	FebMayAugNov
2,4,5-TP, Silvex	10	ppb	JanAprJu10ct	Grab '	FebMayAugNov

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GROUND WATER MONITORING REQUIREMENTS AND LIMITATIONS - Page 3

- Notes: (1) A. By membrane filtration, not to exceed four per 100 ml in more than one sample when less than 20 are examined per month, or B. by fermentation tube, with a standard 10 ml portion, not to be present in three or more portions in more than one sample when less than 20 are examined per month, or C. prevailing criteria adopted pursuant to the Federal Safe Drinking Water Act (PL 93-523).
 - (2) Prevailing regulations adopted by USEPA pursuant to Sections 1412, 1415, and 1450 of the Public Health Services Act as amended by the Safe Drinking Water Act (PL 93-523).
 - (3) GC/MS scan for volatile organics with a method limit of detection of 10 ppb or better for each substance. The concentration limit for specific volatile organic chemicals shall be that specified in Appendix F of the NJPDES regulations for the 10 Cancer Risk, but in no case shall the total concentration for all volatile organic chemicals exceed 50 ppb.

The Permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this Permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the Permit sampling requirements and may place the Permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10.

It shall be the Permittee's sole responsibility to maintain an adequate supply of the required report forms.

5/3

GROUND WATER MONITORING REQUIREMENTS AND LIMITATIONS - PAGE 4

Satisfactory ground water monitoring wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards.

A Ground Water Monitoring Well Certification (Forms A and B) shall be completed for each existing of proposed ground water monitoring well. Information for each well must be shown on a separate form. For an existing well, if information required on the Ground Water Monitoring Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this Permit, the Department reserves the right to require a replacement well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample at any time of the year as specified by the Permit. Any replacement well must be installed within a 10 foot radius of the existing well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office (609-984-6831).

APPENDIX A

The permittee must use the Student's t-test to determine statistically significant changes in the concentration or value of an indicator parameter in periodic ground water samples when compared to the initial background concentration or value of that indicator parameter. The comparison must consider individually each of the wells in the monitoring system. For three of the indicator parameters (specific conductance, total organic carbon, and total organic halogen), a single-tailed Student's t-test must be used to test at the 0.01 level of significance for significant increases over background. The difference test for pH must be a two-tailed Student's t-test at the overall 0.01 level of significance.

The Student's t-test involves calculation of the value of t-statistic for each comparison of the mean (average) concentration or value (based on a minimum of four replicate measurements) of an indicator parameter with its initial background concentration or value. The calculated value of the t-statistic must then be compared to the value of the t-statistic found in a table for t-test of significance at the specified level of significance. A calculated value of t which exceeds the value of t found in the table indicates a statistically significant change in the concentration or value of the indicator parameter.

Formulae for calculation of the t-statistic and table for t-test of significance can be found in most introductory statistics texts.

6.12 Ground-water Sampling Procedures

To ensure a representative sample from a monitor well or a potable well, flushing or pumping is almost always required. In general, the ground-water standing in the well casing at the time of sample collection will be similar in quality to that in the surrounding aquifer or local groundwater, but it may not be representative. Accordingly, the well should be pumped (or bailed) prior to collecting a sample whenever possible.

For pump samples, a volume of water equal to three times that standing in the casing should be pumped from the well before taking the sample. Overpumping, which can result in dilution of the samples should be avoided. Depending on the geology, well design and other factors, some monitor wells will have a low yield. In such cases, the standing water should be evacuated and a sample collected upon recovery. Wells with relatively high yield can be sampled immediately after evacuation or bailing.

A pumping well will yield samples which incorporate water drawn from a volume adjacent to the well bore at the depth of the sampling tube orifice if the well is screened at that depth. Otherwise, the sample will represent water entering the well bore at the bottom of the casing or at the nearest screened interval. Therefore, these sampling configurations can preclude water quality information with depth and, since the pumped samples are obtained form a volume adjacent to the well bore, dilution or concentration of the samples can occur as the well continues to be pumped. In these instances, grab samples are preferred over pumped samples.

If a monitoring well is sampled using a bailer, the standing water in the well should be bailed repeatedly until at least one (and preferably three) times the water volume standing in the well casing have been exchanged prior to sample collection.

Depth-to-water should be measured prior to sampling using a calibrated steel tape.

If surface pumps or hoses are used, the end of the hose must be at a sufficient depth that suction will not be broken as the level of water in the monitoring well is drawn down. Bowever, the hose must be kept above the bottom so that sediments or solids will not be entrained and sample turbidity increased. Poorly-developed monitor wells may also promote increased turbidity. Bedrock wells are less likely to present problems of induced turbidity upon sampling than are wells screened in unconsolidated materials.

For those water quality parameters not subject to chemical change within a well casing in contact with the atmosphere, a pump sample may not be necessary (e.g. nitrate (NO3)). However, in the case of volatile organics (e.g. benzene, trichlorethylene, toluene), concentrations can decrease for water standing in the well. Therefore, samples for volatile organics should be collected from depths several feet below the water level. If grab samples are taken for volatile organic analyses, methyl alcohol and distilled water should be used to thoroughly clean the sampler prior to reuse. The sampler should be washed first with the alcohol, then rinsed with distilled water; the alcohol must be allowed to volatilize before resuming sampling.

When sampling is done from a pump discharge, the flow rate should be reduced to a trickle to minimize agitation of the water and resulting loss of volatile compounds. When sampling for low levels of volatiles, care must be taken as to the source of water used in priming a centrifugal pump.

If several wells are to be sampled for volatiles, the least contaminated wells should be sampled first and the remaining wells sampled in order of increasing contamination. If the relative levels of contamination are unknown, clean water should be used to purge the pump following each well sampled in order to minimize cross-contamination of samples.



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

CN 029 TRENTON, NEW JERSEY 08625

JOHN W. GASTON JR., P.E. DIRECTOR

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

OCT 23 1984

Mr. Jeffrey Duncan, P.E. Ground/Water Technology, Inc. 100 Ford Rd., Suite C-5 Denville, N.J. 07834

Re: Draft Initial Interim Permit NJ0099074

Dear Mr. Duncan:

The Department has received your letter of Aug. 10, 1984 to Mr. Arnold Schiffman, Administrator regarding the above referenced permit for Dowty RFL Industries, Inc. in Boonton, N.J.

The following responses refer to each of your specific comments on the draft permit:

Page "R" and Page "S"

The monitoring of ground water samples for the presence of Barium, Mercury and Silver will remain in the final permit. Although these metals are relatively insoluble, they are leachable under some circumstances. These parameters are considered to be an integral part of background water quality. Sampling frequencies for these parameters was limited to a semi-annual basis because these parameters are not expected to be present in significant quantities in wastewater at a facility of this nature.

Page "T"

Acrolein and Acrylonitrile will be deleted from the ground water reporting forms.

TABLE 3 - GROUND WATER MONITORING REQUIREMENTS and LIMITATIONS

Page 2

GC/MS for Total Volatile Organics is required for all NJPDES permittees, particularly when the presence of organics is well confirmed. The requirement for GC/MS will be retained in the final permit.

Special Conditions for RFL Industries

B. (1) b. Once the lagoon sample results for liquid, sludge and soil samples (as specified in the draft permit) have been submitted to the Bureau of Ground Water Discharge Permits (BGWDP) and have been classified by the Division of Waste Management, Bureau of Hazardous Waste Classification and Manifest, the BGWDP will make a determination as to which disposal methods will be allowed for the liquid, sludge and soil in the lagoon.

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- B. (1) c. There are several reasons for removing all of the sludge in the lagoon:
 - 1) The sludge will act as a source for future ground water contamination. Although the sludge may pass an EP Toxicity test, it may still contain quantities of hazardous and non-hazardous materials which are far in excess of ground water standards.
 - 2) There are several potable private wells in close proximity to this facility some of which may already be contaminated. Although the source (3) of this contamination could be one or all of the local manufacturing facilities, removal of the lagoon sludge would provide RFL with some degree of protection against further contamination.
 - 3) The ground water monitoring requirement of not less than one year (Special Condition B8) was determined based on all of the sludge being removed. This monitoring period would have to be extended for several years if the sludge were to remain.
 - In order for Dowty RFL to leave the sludge within the lagoon at closure it would be necessary for Dowty RFL to obtain a permit to landfill from the Division of Waste Management. The New Jersey Solid Waste Management Act (N.J.S.A. 13:1E 1 et seq.) requires that any material destined for ultimate disposal be implaced only under the auspices of a valid landfill permit.

Special Condition B8

This condition shall remain in the final permit The number and frequency of parameters required by this permit are minimal for a RCRA facility.

As for the dedication of financial resources, once the lagoon closure has been completed, certified by a N.J. Professional Engineer and approved by the BGWDP, the financial assurance requirements of RCRA will no longer be in effect.

If you have any further questions on closure requirements or the final permit, please call Melinda Dower at (609) 292-0424.

Sincerely,

Original Signed
and Mailed
John J. Trela, Ph.D, Chief
Bureau Ground Water Discharge Permits

WQM129:bem

cc: Jack Slater, RFL Industries
Greg Cunningham, DEP Enforcement
Ben Esterman, Div. of Waste Mgt.

SUBMITTALS REQUIRED BY
NJPDES PERMIT NO. NJ0099104
DOWTY RFL INDUSTRIES, INC.
BOONTON, NEW JERSEY

Prepared by

GROUND/WATER TECHNOLOGY, INC.

100 Ford Road
Denville, New Jersey 07834

January 14, 1985

G/WT File 83512

The following attachments have been prepared by Ground/Water Technology for DOWTY RFL Industries (RFL) as a response to submittals required under their NJPDES Permit No. NJ0099104. These attachments are as follows:

Attachment	Required Submittal	Permit Section
•		
А	Monitor Well Certifications A & B	1.3
В	Ground Water Monitoring Program	2.1
C	Outline GWQAP	2.5
D	Background Concentration Summary	2.6
E	GWQAP Status Report	2.8
F	General Site Plan	3.1
G	Final Schedule for Closure	В6

ATTACHMENT A

MONITOR WELL CERTIFICATION FORMS A & B

Monitor Well MW-1

Monitor Well MW-2

Monitor Well MW-3

Monitor Well MW-4

Revised 3/18/85

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Name of Permittee:

DOWTY RFL Industries, Inc.

Name of Facility: Location:

Powerville Road, Boonton, NJ 07005

NJPDES Permit No:

NU 0099104

CERTIFICATION

Well Permit Number (As assigned by NUDEP's Well Drilling Perits Section (609 - 984-6831)): Owner's Well Number (As shown on the application: or plans):

2 5-2 1 3 4 2-3

MW#1

Well Completion Date:

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):

Total Depth of Well (one-hundredth of a foot):

Depth to Top of Screen From Top of Casing (one-hundredth of a foot):

Screen Length (feet): Screen or Slot Size:

Screen or Slot Material:

Casing Material: (PVC, Steel or Other-Specify):

Casing Diameter (Inches):

Static Water Level From Top of Casing at The Time

of Installation (one-hundredth of a foot): Yield (Gallons per Minute):

Length of time Well Pumped or Bailed

Lithologia Log:

June 10, 1980

2.831

11.051

20 Slot 2" diam.

PVC

7.45' on 6/23/80

38 GPM on 6/23/80

Hours ? Minutes

ATTACH

AUTHENTICATION

I certify under penalty of law that, where applicable, I meet the requirements as specified on the reverse of this page, that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

GARY J. CLUEN

NAME (TYPE OR PRINT)

A.I.H. Certification #412 P. Hydrogeologist

CERTIFICATION OR LICENSE NUMBER

CERTIFICATION BY EXECUTIVE OFFICER OR DULY AUTHORIZED REPRESENTATIVE

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DOWT FL Industries, Inc. Name of Permittee: Name of Facility: Location: Powerville Road, Boonton, NJ 07005 NUPDES Permit No: NJ 0099104 Well Permit Number (As assigned by NUDEP's Well Drilling Perits Section (609 - 984-6831)): 2 5 - 2 1 3 4 4 - 0 Owner's Well Number (As shown on the application or plans): MW#3 Well Completion Date: A Completion Date: June 10, 1980 Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): 2.661 Total Depth of Well (one-hundredth of a foot): Maria Carlos Depth to Top of Screen From Top of Casing 19. (Albert 19. Albert 19. 9.301 (one-hundredth of a foot): Screen Length: (feet): Screen or Slot Size: Screen or Slot Material: 1988 PVC Casing Material: (PVC, Steel or Other-Specify):

Casing Diameter (Inches): Static Water Level From Top of Casing at The Time 5.09' on 6/24/80 of Installation (one-hundredth of a f ∞ t): Yield (Gallons, per Minute): 48-8-9-9-9 Length Of time Well Pumped or Bailed Lithologic Log

20 GPM on 6/24/80 ? Hours ? Minutes ATTACH

AUTHENTICATION

I certify under penalty of law that, where applicable, I meet the requirements as specified on the reverse of this page, that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the (information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

GARY J. CLUEN

. HAME (TYPE OR PRINT)

A.I.H. Certification 🌣 #412 P. Hydrogeologist 🤉

CERTIFICATION OR LICENSE NUMBER

CERTIFICATION BY EXECUTIVE OFFICER OR DULY AUTHORIZED REPRESENTATIVE

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Name of Permittee:

DOWTY TL Industries, Inc.

Name of Facility:

Location:

Powerville Road, Boonton, NJ 07005

NUPDES Permit No:

0099104 ענו

CERTIFICATION

Well Permit Number (As assigned by NUDEP's Well Drilling Perits Section (609 - 984-6831)): Owner's Well Number (As shown on the application or plans):

Well Completion Date:

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a f ∞ t):

Total Depth of Well (one-hundredth of a foot):

Depth to Top of Screen From Top of Casing (one-hundredth of a foot):

Screen Length (feet):

Screen or Slot Size:

Screen or Slot Material:

Casing Material: (PVC, Steel or Other-Specify):

Casing Diameter (Inches):

Static Water Level From Top of Casing at The Time of Installation (one-hundredth of a foot):

Yield (Gallons per Minute): ...

Length of time Well Pumped or Bailed

Lithologic Logi

2 5 - 2 1 3 4 3 - 1

MW#2:

June 11, 1980

2.501

4.50'

20'

20 Slot 2" diam.

PVC

5.09' on 6/24/80

20 GPM on 6/24/80 🔤

7 Hours - ? Minutus ΛΊΊΛΟΙΙ

AUTHENTICATION

I certify under penalty of law that, where applicable, I meet the requirements as specified on the reverse of this page, that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

GARY J. CLUEN

HAME (TYPE OR PRINT)

A.I.H. Certification #412 P. Hydrogeologist CERTIFICATION OR LICENSE NUMBER

CERTIFICATION BY EXECUTIVE OFFICER OR DULY AUTHORIZED REPRESENTATIVE

SUATER

Pule 1.6/11/80	
MORETRENCH AMERICAN WELL REPORT	
RFL. Inclus xries, Inc.	
Powervelle Rd., Boonton, N. J. 07005 Driller	
Job Phone: None Comments: State Permit No. 25-21343	
Brooch No Mockaway, New Jersey	
No Vor Well sinstalled today: well No. two Depth of hole: 261	
Dia of borehole: 6"	
Dia, of well: Length of screen: 20	
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Hours Regular:	
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L Industries, Inc. DOWTY. Name of Permittee: Name of Facility: 07005 Powerville Road. Boonton. Location: 💖 NJ 0099104 NJPDES Permit No: CERTIFICATION (11/1/12) Well Permit Number (As assigned by NUDEP's Well 2 5-2.3 8 9 4-9 Drilling Perits Section (609 - 984-6831)): Owner's Well Number (As shown on the application. MW#4 or plans): Well Completion Date: August 18; 1983 Well Completion Date:
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2+ GPM - 8/19/83 3 Hours Minutes ATTACH

AUTHENTICATION

Lithologic Log:

Yield (Gallons, per Minute):

Length of time Well Pumped or Bailed

I certify under penalty of law that, where applicable, I meet the requirements as specified on the reverse of this page, that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

GARY J. CLUEN

of Installation (one-hundredth of a foot):

HAME . (TYPE OR PRINT)

A.I.H. Certification #412 P. Hydrogeologist

CERTIFICATION OR LICENSE NUMBER

CERTIFICATION BY EXECUTIVE OFFICER OR DULY AUTHORIZED REPRESENTATIVE

HAME (TYPE OR PRINT)

/oato 8/18/83	
	Rig No.: 0415
MORETRENCH AMERICAN WELL REPORT Contractor: Ground Water Tech	Job No.: 1-4311
	Date: 8/18/83
Job Address: RFL Industries Job Phone: Comments:	
Branch No.: Comments.	property of the second of the second
No. of wells installed today: one	Depth of hole: 25 '6"
	l enoth of well: 25
Dia of borehole:	Length of screen: 20 -20-
Dia. of well: Type, dia., slot of screen PVC 2" .020 slot	Well yield: 2 + GPM
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19 - 23 medium sand, some gravel	The Property of the Property of the Control of the
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James W. Bausch, P.E., L.S.

13 HILLCREST ROAD

TOWACO, NEW JERSEY 07082

(201) - 334-6003

LETTER OF TRANSMITTAL

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SIGNED BY: Mausiex Eastox

KIL

MPLETED BY THE PERMITTEE 🚅 HIS/HER AGENT

GROUND WATER MONITORIN	NG WELL CERTIFI	CATION - FORM	MB - LOCAT	TION CERTIF	FICATION
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N.QM111-A/GWM3:lml

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATIO

Name of Permittee:	DONTY RECINOUSTRIES INC	•
Name of Facility:	DAWTY REL HADROTRIES INC. 1800	_
Location:	PANERVILLE RUNNING CONTRACTOR CONTRACTOR	
	ROUNTON W.T. STOPS WALL STOP STORES	
NJPDES Permit No:	NJ 2 0 2 0 2 9 2 9 1 1 1 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's
Water Allocation Section, 609-984-6831): 252/347
This number must be permanently affixed
to the well casing.

Longitude (one-hundredth of a second):
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 (one-hundredth of a foot):
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5 / 5 4 3 (9/19/\$3)

Note - Longitude & Latitude Values scaled from U.S.G.S. Boonton Quadrangle,

AUTHENTICATION

Tcertify under penalty of law that I have personally examined and am familiar ith the information submitted in this document and all attachments and that, pased on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and omplete. I am aware that there are significant penalties for submitting also information including the possibility of fine and imprisonment.

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

PROFESSIONAL LAND SURVEYOR'S NAME (Please print or type)

ROFESSIONAL LAND SURVEYOR'S LICENSE #

WOM111-A/GWM3:1ml

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THIS FORM MUST BE DMPLETED BY THE PERMITTEF OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Name of Facility: DONTY REP. INDUSTRIES INC.

Name of Faci.
Location:

PONEPHINE ADA

NJPDES Permit No:

NJ 0 0 9 9 1 11 4

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): This number must be permanently affixed to the well casing.

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Longitude (one-hundredth of a second):
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Note - Longitude & Latitude Values scaled from U.S.G.S. Boonton Quadrangle,

UTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, ased on my inquiry of those individuals immediately responsible for obtaining he information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting also information including the possibility of fine and imprisonment.

ROFESSIONAL LAND SURVEYOR'S SIGNATURE

Mark W. Bausch

ROFESSIONAL LAND SURVEYOR'S NAME

(Please print or type)

#27483

ROFESSIONAL LAND SURVEYOR'S LICENSE #

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THIS FORM MUST F COMPLETED BY THE PERMITT

OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATIO

Name of Permittee: DOWTY REL INDUSTRIES INC.

Name of Facility: DONNY REL MOUSTRIES M

Location: POWERYING PD, ADONTON N.T. 17005

NJPDES Permit No: NJ 0 10 9 9 1 0 4

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

This number must be permanently affixed

to the well casing.

Longitude (one-hundredth of a second):

Latitude (one-hundredth of a second):

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(one-hundredth of a foot):

Owners Well Number (As shown on the

application or plans):

West $\frac{7}{4}$ $\frac{4}{0}$ / $\frac{2}{5}$ / $\frac{2}{4}$ $\frac{9}{9}$ / $\frac{4}{7}$

_ 519 98 (0/10/23)

25 2 1 3 4 2 _

MW #1

Note - Longitude & Latitude Values scaled from U.S.G.S. Boonton Quadrangle Map

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Mark W. Bausch

PROFESSIONAL LAND SURVEYOR'S NAME

(Please print or type)

#27483

PROFESSIONAL LAND SURVEYOR'S LICENSE #

WQM111-A/GWM3:1ml

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ATTACHMENT E

GROUND WATER QUALITY ASSESSMENT PROGRAM



STATUS REPORT

GROUND WATER QUALITY ASSESSMENT PROGRAM

1. INTRODUCTION AND BACKGROUND

The evaporation pond at DOWTY RFL Industries was initially investigated by the NJDEP. Their study began by sampling the discharge water being released to the evaporation pond, and finding it high in metals content. Although the pond is reportedly constructed with a clay lining, it was felt that some of the discharge could be infiltrating the ground water below the lagoon. RFL began to make changes in their plating operations in an effort to reduce the quantity of the discharge flow and also to reduce the concentrations of metals, especially lead and copper, in the water released.

In order to investigate whether the ground water had been contaminated, three monitor wells were installed around the pond in June of 1980. These wells were designated as MW-1, MW-2 and MW-3; and their locations are shown on the General Site Plan in Attachment F. Water samples were collected from these wells during 1980 and 1981, and they indicated that some contamination by volatile organics was present in the ground waters around the evaporation pond.

RFL was then directed to retain the services of a ground water consulting firm to address the extent, direction of migration and concentrations of contamination around the lagoon. Ground/Water Technology was retained by RFL for this purpose in December1981.

KaB

A preliminary evaluation of the site was made and a letter report was issued on February 18, 1982. The preliminary conclusions were that the apparent ground water flow direction was from the pond toward the unnamed stream which drains from the RFL fire pond. As a result of the contamination that was found in wells MW-2 and MW-3, recommendations for a monitoring program to evaluate the problem in more detail were proposed. A regular monitoring schedule was initiated and data from these efforts are summarized in Attachment D.

RFL has stopped all discharges to the pond as of July 1, 1983. In order to comply with RCRA regulations, a fourth monitoring well was installed further downstream from the pond. This well was installed on August 18, 1983, and designated MW-4. Its location is also shown on the General Site Plan given in Attachment F.

Results of the monitoring program indicate that contamination by volatile organics has spread to monitoring wells MW-2 and MW-3 but has not reached MW-4. Concentrations in MW-2 have varied between 10 and 1653 ppb since July 1982. In MW-3 the concentrations have varied between 0 and 173.5 ppb with a trend toward lower readings with time. Volatile organics which entered the stream had concentrations of between 1.7 and 196.7 ppb at a point approximately 300 feet downstream of the evaporation pond but have not been detected since after the first sampling at

Valley Road on May 12, 1983. Results of that first sampling showed only 10.4 ppb.

Since contamination had already been found, RFL Industries assumed that the indicator parameters, as required under detection monitoring, would already show significant increases or decreases (in the case of pH) when evaluated under 40 CFR 265.93 (b) and; therefore, in cooperation with NJDEP they initiated an alternative ground water monitoring program as was allowed under the regulations. (Refer to our letter of 9/9/83 to Mr. Karl Vetter of NJDEP.)

Ground water quality has been monitored on roughly a quarterly basis since 1982. As a response to cleaning up the area, RFL had submitted a final draft closure plan for the pond in December 1983. Action has been delayed in implementing the closure plan since final approval of the plan was only given by NJDEP in NJPDES Permit No.NJ0099104 with an effective date of December 15, 1984. Pond closure is now anticipated to begin in the Spring of 1985. Once the source of contamination is removed, it is anticipated that any remaining contamination in the ground water will purge itself into the adjacent stream. The stream has been monitored in two locations since May 12, 1983; at points approximately 300 feet and 2000 feet downstream of the pond. Indications are that the contamination which enters the stream is purged with distance and would not present a threat to health.

KaD

2. MONITORING PROGRAM

Under the final NJPDES permit, DOWTY RFL Industries is required to continue monitoring water quality on a quarterly basis until a minimum of one year after closure of the pond or until ground water quality standards have been achieved in all four monitor wells for a period of one year. The Ground Water Monitoring Program has been enclosed as Attachment B.

Monitoring will be performed on each of the four monitoring wells, upstream at the inlet to the fire pond, downstream about 300 feet from the pond and downstream at Valley Road (about 2000 feet from the pond). Samples of the water in the evaporation pond will also be analyzed up until closure.

3. POND CLOSURE

The evaporation pond will be removed in accordance with the approved closure plan and Special Conditions Bl through BlO. The anticipated schedule for closure is during the Spring of 1985 as stated in Attachment G.

4. POST CLOSURE

Monitoring of the four monitor wells and three surface water sites will continue until ground water quality standards are achieved. Should ground water quality not be improving with time, it may be necessary to implement secondary aquifer decontamination measures. Such measures would be recommended, as the need arises, for approval by NJDEP prior to implementation.

KZE

5. CERTIFICATION

I hereby certify that this report was prepared by me or under my direct supervision and that I am a duly certified Professional Hydrogeologist, under the rules and regulations of the American Institute of Hydrology.

Gary J. Cluen, Professional Hydrogeologist

Jan I aluen

Certificate No. 412

Certified by: American Institute of Hydrology

ATTACHMENT G

FINAL SCHEDULE FOR CLOSURE

LAGOON CLOSURE SCHEDULE

		Compation
	<u>Item</u>	<u>Date</u>
1.	Bid Package Preparation (4 weeks)	2/15/85
2.	Review by RFL & NJDEP for Approval (2 weeks)	3/1/85
3.	Bids Received from Contractors (2 weeks)	3/15/85
4.	Notice to Proceed Issued (2 weeks)	4/1/85
5.	Start of Closures (2 weeks)	4/15/85
6.	Closure Complete (8 weeks est.)	6/7/85 est.
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION II

In the Matter of

R.F.L. INDUSTRIES NJDUU2156677 (Boonton, New Jersey)

Respondent.

Proceeding Under Section 3003 of the Solid Waste Disposal Act, as amended.

AND NOTICE OF OPPORTUNITY
FOR HEARING

Docket No. II RCRA-82-0108

COMPLAINT

This administrative proceeding is instituted pursuant to Section 3008 of the Solid Waste Disposal Act, as amended, 42 U.S.C. \$6901 et seq. ("the Act"). [Note: Among the statutes amending the Act is the Resource Conservation and Recovery Act, 90 Stat. 2795, P.L. 94-580 (1976).]

The Director of the Enforcement Division of the U.S. Environmental Protection Agency ("EPA"), Region II, Complainant in this proceeding, has determined that Respondent, R.F.L. Industries, has violated Section 3002 of the Act, 42 U.S.C. §6922, and the regulations promulgated thereunder, as hereinarter specified:

- 1. Respondent owns and operates a facility located at Powerville Road, Boonton, New Jersey.
- 2. By notification dated July 24, 1980, Respondent informed EPA that it conducts activities at the facility involving "hazardous waste," as that term is defined in Section 1004(5) of the Act, 42 U.S.C. \$6904(5) and in 40 CFR \$261.3. By application dated February 2, 1981, Respondent requested a permit to conduct its hazardous waste activities.
- 3. On or about October 15, 1981, an inspection of the facility was conducted by duly-designated employees of Era pursuant to Section 3007 of the Act, 42 U.S.C. \$6927. Said inspection was conducted for the purpose of enforcing the EPA regulations for hozardous waste management, 40 CFR Parts 260 through 265 (published in 45 Fed. Reg. 33063 et seq., May 19, 1980 and as later amended), promulgated pursuant to Subtitle C of the Act, 42 U.S.C. \$6921 et seq.

- 4. The above-referenced inspection revealed that Respondent's facility was being used for the generation and storage of hazardous waste, including spent acids.
- 5. 40 CFR Part 265 sets standards for all hazardous waste storage facilities.
- 6. 40 CFR \$265.31 requires that a hazardous waste treatment, storage, or disposal facility be maintained and operated in a manner designed to minimize the possibility of any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the environment. At the time of the above-referenced inspection, 5-6 leaking and/or corroded drums of hazardous waste were stored on the ground surrounded by evidence of spills. Respondent was therefore in violation of 40 CFR \$265.31.

PROPOSED CIVIL PENALTY

In view of the above-cited violations, and pursuant to the authority of Section 3008 of the Act, Complainant herewith proposes the assessment of a civil penalty in the amount of six thousand five hundred dollars (\$6,500) against R.F.L. Industries for the violation specified hereinabove.

COMPLIANCE ORDER

Based upon the foregoing, and pursuant to the authority of Section 3008 of the Act, Complainant herewith issues the following Complainant herewith issues the following Complainant herein:

- 1. Respondent shall henceforth manage all hazardous wastes generated at the facility in such a manner so as to insure that no wastes or waste constituents are released to the environment in violation of 40 CFR \$265.31.
- 2. Respondent shall immediately transfer any hazardous waste stored at the facility from containers which are leaking or corroded to containers which are sound or otherwise dispose of the materials in a manner in compliance with the Act and the regulations.
- 3. Respondent shall, within 60 days of the effective date of this Order, identify and remove any contaminated soils from the grounds of the facility and dispose of them in a manner in compliance with the Act and the regulations.

NOTICE OF LIABILITY FOR ADDITIONAL CIVIL PENALTIES

Pursuant to the terms of Section 3008(a)(3) of the Act, a violator failing to take corrective action within the time specified in a Final Compliance Order is liable for a civil penalty of up to \$25,000 for each day of continued noncompliance. Such continued noncompliance may also result in suspension or revocation of any permits issued to the violator pursuant to the authority of the Act.

NOTICE OF OPPORTUNITY TO REQUEST A HEARING

As provided in Section 3008(b) of the Act, and in accordance with EPA's Consolidated Rules of Practices Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 CFR Part 22, 45 Fed. Reg. 24360 (April 9, 1980) (a copy of which accompanies this Complaint, Compliance Order, and Notice of Opportunity for Hearing), you have the right to request a hearing to contest any material fact set out in the Complaint, or to contest the appropriateness of the proposed penalty, or the terms of the Compliance Order. (Consistent with the provisions of Section 3008(b) of the Act, the hearing provided will be noticed and open to the general public, should you specifically request such a public hearing. In the absence of such a specific request, however, public notice of a scheduled hearing will not be published.)

To avoid being found in default, and having the proposed civil penalty assessed and the Compliance Order confirmed without further proceedings, you must file a written answer to the Complaint, which may include a request for a hearing. Your answer (if any) must be addressed to the Regional Hearing Clerk, U.S. Environmental Protection Agency, Region II, 26 Federal Plaza, New York, New York, 10278, and must be filed within thirty (30) days of your receipt of this Complaint, Compliance Order, and Notice of Opportunity for Hearing. Your answer must clearly and directly admit, deny or explain each of the factual allegations contained in the Complaint, and should contain (1) a clear statement of the facts which constitute the grounds of your defense, and (2) a concise statement of the contentions which you intend to place in issue at the hearing.

The denial of any material fact, or the raising of any affirmative defense, will be construed as a request for a hearing. Failure to deny any of the factual allegations in the Complaint will be deemed to constitute an admission of the undenied allegations. Your failure to file a written answer within thirty (30) days of receipt of this instrument will be deemed to represent your admission of all facts alleged in the Complaint, and a waiver of your right to a formal hearing to contest any of the facts alleged by the Complainant. Your default will result in the final issuance of the Compliance Order, and assessment of the proposed civil penalty, without further proceedings.

INFORMAL SETTLEMENT CONFERENCE

Whether or not you request a hearing, the EPA encourages settlement of this proceeding consistent with the provisions of the Act. At an informal conference with a representative of the Complainant you may comment on the charges and provide whatever additional information you feel is relevant to the disposition of this matter, including any actions you have taken to correct the violation, and any other special circumstances you care to raise. The Complainant has the authority to modify the amount of the proposed penalty, where appropriate, to reflect any settlement agreement reached with you in such conference, or to recommend that any or all of the charges be dismissed, if the circumstances so warrant. Your request for an informal

conference and other questions that you may have regarding this Complaint, Compliance Order, and Notice of Opportunity for Hearing should be directed to Bruce R. Adler, Attorney, General Enforcement Branch, U.S. Environmental Protection Agency, Region II, 26 Federal Plaza, New York, New York, 10278, telephone (212) 264-9898.

Please note that a request for an informal settlement conference does not extend the thirty (30) day period during which a written answer and request for a hearing must be submitted. The informal conference procedure may be pursued as an alternative to or simultaneously with the adjudicatory hearing procedure. However, no penalty reduction will be made simply because such a conference is held. Any settlement which may be reached as a result of such conference will be embodied in a written Consent Agreement and Final Compliance Order to be issued by the Regional Administrator of EPA, Region II, and signed by you or your representative. Your signing of such Consent Agreement would constitute a waiver of your right to request a hearing on any matter stipulated to therein.

RESOLUTION OF THIS PROCEEDING WITHOUT HEARING OR CONFERENCE

Instead of filing an answer requesting a hearing or requesting an informal settlement conference, you may choose to comply with the terms of the Compliance Order, and to pay the proposed penalty. In that case, payment should be made by sending to the Regional Hearing Clerk, EPA, Region II, a cashier's or certified check in the amount of the penalty specified in the "Proposed Civil Penalty" section of this instrument. Your check must be made payable to the United States of America.

DATED: New York, New York

15 , 1982

COMPLAINANT:

Julio Morales-Sanchez

Director /

Enforcement Division

U.S. Environmental Protection Agency

Region II

26 Federal Plaza

New York, New York 10278

bcc: George Raden, 2WA-WF

Richard Mays, (WH-527) Tom Taccone, 2PM-PA

TO: Mr. Jack Slater
R.F.L. Industries
Powerville Road
Boonton, New Jersey 07005

cc: Mr. Jerry Burke, Esq.
New Jersey Department of
Environmental Protection

CERTIFICATE OF SERVICE

This is to certify that on the day of 1982 I served a true and correct copy of the foregoing Complaint by certified mail to Mr. Jack Slater, R.F.L. Industries, Powerville Road, Boonton, New Jersey, 07005. I handcarried the original foregoing Complaint to the Regional Hearing Clerk.

ELLEN P. PALMISANO Clerk Stenographer

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION II

In the Matter of

CONSENT AGREEMENT AND FINAL ORDER

R.F.L. INDUSTRIES NJD002156677

(Boonton, New Jersey)

Respondent.

Docket No. II RCRA-82-0108

Proceeding Under Section 3008 of the Solid Waste Disposal Act, as amended.

PRELIMINARY STATEMENT

This administrative proceeding was instituted pursuant to Section 3008 of the Solid Waste Disposal Act, as amended, 42 U.S.C. \$6901 et seq. ("the Act"). [Note: Among the statutes amending the Act is the Resource Conservation and Recovery Act, 90 Stat. 2795, P.L. 94-580 (1976).]

The Director of the Enforcement Division of the U.S. Environmental Protection Agency ("EPA"), Region II, Complainant in this proceeding, issued a Complaint, Compliance Order and Notice of Opportunity for Hearing to Respondent R.F.L. Industries on January 18, 1982. Said document charged Respondent with certain violations of Section 3002 of the Act, 42 U.S.C. §6922, and the regulations promulgated thereunder.

This Consent Agreement and Final Order is being entered into by the parties in full settlement of all liabilities which might have attached as a result of the violations alleged in the Complaint. Respondent, without admitting or denying the facts set out herein, consents to the issuance of

ATTACHMENT MI

the attached Final Order. Respondent furthermore waives its right to receive a hearing on the above-referenced Final Consent Order, and agrees to pay a penalty in the amount called for therein.

FINDINGS OF FACT AND CONCLUSIONS OF LAW

- 1. Respondent owns and operates a facility located at Powerville Road, Boonton, New Jersey.
- 2. By notification dated July 24, 1980, Respondent informed EPA that it conducts activities at the facility involving "hazardous waste," as that term is defined in Section 1004(5) of the Act, 42 U.S.C. \$6904(5) and in 40 CFR \$261.3. By application dated February 2, 1981, Respondent requested a permit to conduct its hazardous waste activities.
- 3. On or about October 15, 1981, an inspection of the facility was conducted by duly-designated employees of EPA pursuant to Section 3007 of the Act, 42 U.S.C. \$6927. Said inspection was conducted for the purpose of enforcing the EPA regulations for hazardous waste management, 40 CFR Parts 260 through 265 (published in 45 Fed. Reg. 33063 et seq., May 19, 1980 and as later amended), promulgated pursuant to Subtitle C of the Act, 42 U.S.C. \$6921 et seq.
- 4. The above-referenced inspection revealed that Respondent's facility was being used for the generation and storage of hazardous waste, including spent acids.
- 5. 40 CFR Part 265 sets standards for all hazardous waste storage facilities.
- 6. 40 CFR \$265.31 requires that a hazardous waste treatment, storage, or disposal facility be maintained and operated in a manner designed to minimize the possibility of any unplanned sudden or non-sudden release of hazardous

waste or hazardous waste constituents to the environment. At the time of the above-referenced inspection, 5-6 leaking and/or corroded drums of hazardous waste were stored on the ground surrounded by evidence of spills. Respondent was therefore in violation of 40 CFR §265.31.

7. Respondent has represented to Complainant that, immediately subsequent to the inspection, all corroded and/or leaking drums were properly removed from the property and disposed of.

FINAL CONSENT ORDER

Based upon the foregoing, and pursuant to Section 3008 of the Act and Section 22.18 of the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, 40 CFR §22.18, it is hereby ORDERED that:

1. Respondent shall henceforth manage all hazardous wastes generated at the facility in such a manner so as to insure that no wastes or waste constituents are released to the environment in violation of 40 CFR §265.31.

Within sixty (60) days of receipt of a signed and executed copy of this Final Consent Order, Respondent shall pay by cashier's or certified check a civil penalty for the violations cited herein in the amount of three thousand five hundred dollars (\$3,500), payable to the Treasurer, United States of America. Such payment shall be remitted to the Regional Hearing Clerk, EPA, Region II, 26 Federal Plaza, New York, New York, 10278. Failure to remit such payment in full will result in the referral of this matter to the United States Attorney for collection.

SO ORDERED, EFFECTIVE IMMEDIATELY.

CONSENT

Respondent has read the foregoing Order and consents to its issuance and to its terms. Furthermore, Respondent explicitly waives its right to request a hearing on this Order, and agrees to pay the penalty amount called for in the Order.

RESPONDENT

BY: Miller Willeller a.

The Mendent & Spector

Aft Nedentees Me

R.F.L. INDUSTRIES

DATE :

March 2 1982

COMPLAINANT:

MICHAEL P. BONCHONSKY
Acting Director
Enforcement Division
U.S. Environmental Protection
Agency
Region II

The Regional Administrator of EPA, Region II, concurs in the abovecited findings. The foregoing Order as agreed upon by the parties is hereby approved and issued, effective immediately.

DATE:

MAR 2 2 1982

JACQUELINE E.\SCHAFER
Regional Administrator
U.S. Environmental Protection
Agency
Region II
26 Federal Plaza
New York, New York 10278

MH

GC



DOWTY RFL Industries Inc.

Boonton, New Jersey 07005-0239 ● Tel: (201) 334-3100 ● TWX: 710-987-8352 ● Cable: RADAIRCO, N.J.

CERTIFIED MAIL RETURN RECEIPT REQUESTED

July 27, 1983

Mr. George G. McCann Assistant Director Enforcement Element Department of Environmental Protection P. O. Box CN 029 Trenton, New Jersey 08625

Dear Mr. McCann:

This is to certify that Dr. Thomas B. Martin is the President of Dowty RFL Industries Inc. and is authorized to sign for the corporation on all lawful matters. He is hereby able to sign your Administrative Consent Order dated July 15, 1983.

Very truly yours,

DOWTY RFL INDUSTRIES INC.

Richard W. Seabury, III Corporate Secretary

RWSIII:mch Enclosure

ATTACHMENT N-



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES
P.O. BOX CN 029
TRENTON, NEW JERSEY 08625

JOHN W. GASTON JR., P.E. DIRECTOR

IN THE MATTER OF: DOWTY RFL INDUSTRIES, INCORPORATED The following FINDINGS are made and ORDER issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (NJDEP) by N.J.S.A. 13:1D-1 et seq., and the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., and duly delegated to the Assistant Director of Enforcement of the Division of Water Resources pursuant to N.J.S.A. 13:1B-4.

FINDINGS

- 1. Dowty RFL Industries, Inc., (hereinafter 'RFL') operates an infiltration/percolation lagoon (as defined in N.J.A.C. 7:14A-1.10 of the Regulations concerning the New Jersey Pollutant Discharge Elimination System (NJPDES)) at its facility located on Powderville Road, Boonton Township, Morris County. Results of water samples collected from the lagoon by RFL on May 23, 1982, July 14, 1982, August 20, 1982 and December 15, 1982 and by NJDEP on July 10, 1980 are summarized in Appendix A to this Order. These results indicate that the lagoon contains the following pollutants which are listed as hazardous substances under N.J.A.C. 7:1E-1.1 et seq.: copper, lead, iron, zinc, nickel, silver, chromium, 1,1,1 trichloroethane, toluene, trichloroethylene, tetrachloroethylene, 1,1,2,2 tetrachloroethane and o-xylene.
- 2. During a meeting held on February 16, 1983, representatives of RFL informed representatives of NJDEP that the infiltration/percolation lagoon would be eliminated by June 1, 1983.
- 3. The discharge of pollutants without a valid NJPDES permit is a violation of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., specifically, N.J.S.A. 58:10A-6a, and the NJPDES Regulations, N.J.A.C. 7:14A-1 et seq., specifically, N.J.A.C. 7:14A-1.3.

ORDER

NOW, THEREFORE, IT IS HEREBY ORDERED AND AGREED THAT RFL:

- 4. Shall cease all discharges to the ground water, and specifically to the infiltration/percolation lagoon, by July 1, 1983.
- 5. Shall continue to monitor, until such time as the discharge to the infiltration/percolation lagoon has been eliminated, which shall be on or before July 1, 1983, in accordance with the conditions listed in Appendix B to this Order. Ground water monitoring shall continue subsequent to elimination of the lagoon. NJDEP will issue a NJPDES initial interim Discharge to Ground Water Monitoring Permit to RFL pursuant to N.J.A.C. 7:14A-1 et seq.
- 6. Any submission of information required by this Order shall be mailed to:

Joseph M. Mikulka, Chief Region IV Enforcement Element Division of Water Resources CN-029 Trenton, New Jersey 08625

- 7. RFL hereby consents to and agrees to comply with all the terms and provisions of the Administrative Consent Order, which shall be fully enforceable in the Superior Court of New Jersey having jurisdiction over the subject matter and signatory parties, upon the filing of a summary action for compliance pursuant to N.J.S.A. 58:10A-1 et seq., and also may be enforced in the same fashion as an Administrative Order issued by the NJDEP pursuant to this same statutory authority.
- 8. This Administrative Consent Order shall not preclude the NJDEP from taking whatever action it deems appropriate to enforce the water pollution control laws of the State of New Jersey in any manner not inconsistent with the terms of this Administrative Consent Order. Nothing in this Consent Order shall constitute a waiver of any statutory right of NJDEP pertaining to any of the laws of the State of New Jersey, should NJDEP determine that additional remedial measures are necessary to protect the public health, safety or welfare.
- 9. The provision of this Order shall be binding on RFL, its principals, agents, employees, successors, assigns and tenants.
- 10. No obligations imposed by this Order are intended to constitute a debt, damage claim, penalty, or other civil action which should be limited or discharged in a bankruptcy proceeding. All obligations imposed by this Order shall constitute continuing regulatory obligations imposed pursuant to the police powers of the State of New Jersey, intended to protect the public health, safety and welfare.
- 11. Force Majeure

 If any event occurs which purportedly causes or may cause delays in the achievement of any provision of this ADMINISTRATIVE CONSENT ORDER, RFL

shall notify the Department in writing within ten (10) business days of the delay or anticipated delay, as appropriate, describing the anticipated length, precise cause or causes, measures taken or to be taken, and the time required to minimize the delay. RFL shall adopt all reasonable necessary measures to prevent or minimize delay. Failure by RFL to comply with the notice requirements of this paragraph shall render this Force Majeure provision void and of no effect as to the particular incident involved.

If the delay or anticipated delay has been or will be caused by fire, flood, riot, strike or other circumstances alleged to be beyond the control of RFL, then the time for performance hereunder shall be extended, subject to the approval of NJDEP, for a second no longer than the delay resulting from such circumstances. However, if the events causing such delay are not found to be beyond the control of RFL, failure to comply with the provisions of this ADMINISTRATIVE CONSENT ORDER Shall not be excused as herein provided and shall constitute a breach of the Order's requirements. The burden of proving that any delay is caused by circumstances beyond the control of RFL and the length of such delay attributable to those circumstances shall rest with RFL. Increases in the costs or expenses incurred in fulfilling the requirement contained herein shall not be basis for an extension of time; similarly, delay in an interim requirement shall not justify or excuse delay in the attainment of subsequent requirements.

12. Hearing Waiver

When this Consent Order becomes effective, RFL waives its right to a hearing on the matters contained hereinabove pursuant to N.J.S.A. 52:14B-1 et seq., and N.J.S.A. 58:10A-1 et seq.

This ADMINISTRATIVE CONSENT ORDER shall take effect upon the signature of both parties.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES BY AUTHORITY OF:
JOHN W. GASTON, JR., P.E., DIRECTOR

	IX II	OWIY RFL INDUSTRIES,
DATE: JULY 27, 1983	BY:_	Thomas B Martin
	NAME:_	THOMAS B. MARTIN
Signatura Signatura (Signatura) (Signatura) (Signatura) (Signatura) (Signatura) Signatura (Signatura) (Signatura) (Signatura) (Signatura) (Signatura) (Signatura)	TITLE:_	PRESIDENT

DATE: JUL 1 5 1983

A P P E N D I X A

	Results of	Lagoon Di	scharge_Sa	nple	Sampling .c	onducted	hyRFL
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Lead	0.02	_0.085		9		1111	
Nickel	0.01	0.009	0.013	0.003			
Fluoride	0.29	0.44	0.268	0.27			-
Chloride	52	75	42.7	316			
Total Dissolved Solids	389	332	'282	273			
Oil and Grease	0.3	0.1	6.9	1.02			
Nitrate (as N)	2,50	3.54	0.284	18			
Hexaxalent Chromium (as Cr)	0.045	0.01	0.060	LT 0.05		 	
. pH (units)	8.0	7.26	9.87	5.22			
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grammer and the second control of the second	Lagoon Di	scharge	1	Sampling	conducted.	by-RFL	
DATE	05/23/82	07/20/82	08/26/82	12/15/82.			
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Acetone	651.5	ND	ND	ND			
1,1 Dichloroethane	2_7	1.3	5.2	ND			
Chloroform	1.0	ND	ND	ND	1		-
_l,l,l Trichloroethane	73.4	39.3	124_1	21.4			
Trichloroethylene	22.6	23.8	73.5	8.3			_
Heptane	2.6	1.8	ND	ND			-
1,1 Dichloroethylene	<u>ND</u>	2.2	ND	ND		<u> </u>	-
Dibromochloromethane	ND	2.6	ND	ND			
Tetrachloroethylene	ND	<u>i.o</u>	0.9	ND			
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Lead	0.001	0.058	_0_057	0 377			
Nickel	0.002	0.015	0.005	0.125			· · · · · · · · · · · · · · · · · · ·
Fluoride	0.28	0.58	04.60	0.40			
Chloride	20	55	40.70	86.5			
Total Dissolved Solids	72.4	329	282'	409			
Oil and Grease	LT_0.1	LT 0.1	LT_0.1	LT-0.1		14 - 14 - 14 - 15	: :
Nitrate (as N)	0.14	0.253	0.284	0.94			
Hexaxalent Chromium (as Cr)	LT 0.01	0.05	0.487	0.11			
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Methylene Chloride	1.2	ND	17	0.9			
Chloroform	0_8	ND	ND	ND			
1,1,1 Trichloroethane	ND	5.2	7.8	21.0		1000 m	1
Trichloroethylene	ND	2.5	3.9	8.9			
1,1 Dechloroethane	ND	ND	ND	7.4			
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BOONTON

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Immediate

Developed _

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Flow Rate

Location

Temperature

Description and Remarks:

Dilutions Requested (Bacteriological)

LABORATORY RESULTS BACTERIOLOGICAL

Coliform MPN/100 ml.

(Confirmed Test); Fecal Coliform MPN/100 mhish-attertage

Fecal Streptococci:MPN/100 ml.

AUG 1 4 1980

REPORT SUBMITTED CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noffis) IF LABOLATCHES & EPID.

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Field D.O. Seed Required: Lab. D.O. Yes : No Sample Conc. % 10 0.1 0.2 0.5 2.0 5.0 1.0 25 50 75 100 BOD₅

APPENDIX B

EFFLUENT AND GROUND WATER MONITORING REQUIREMENTS

Samples from the discharge to the infiltration/percolation lagoon and from the onsite ground water monitoring wells shall be collected and analyzed for the following parameters specified below at quarterly intervals. All samples shall be collected and analyzed by methods considered acceptable by NJDEP beginning when the depth to the ground water table shall be measured from the original ground level and top of the monitor well casing prior to sample collection.

Parameters

All units in parts per billion (ppb) unless otherwise specified

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Total Chromium (parts per million) (ppm) Lead, ppm Nickel, ppm Fluoride, ppm Chloride, ppm Total Dissolved Solids, ppm Oil & Grease, ppm Nitrate (as N), ppm Hexavalent Chromium, ppm pH (units) Chloromethane Bromomethane Dichlorodifluomethane Vinyl Chloride Acetone. Trichlorotrifluoromethane 1,1-Dichloroethylene 1,1-Dichloroethane t-1,2-Dichloroethylene Chloroform 1,2-Dichloroethane t-Bytyl Methyl Ether

1,1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane 1,2-Dichloropropane C-1,3-Dichloropropene t-1,3-Dichloropropene Trichloroethylene 1,1,2-Trichloroethane Dibromochloromethane Benzene Diisosopropyl Ether Hexane Bromoform 1,1,2,2-Tetrachloroethane Tetrachloroethylene Heptane Toluene Chlorobenzene Ethyl Benzene

Other information regard quarterly

Elevation of Top of Monitoring Well Casing (to be determined once but reported quarterly)

Depth of Water Table from top of Casing prior to sampling

Depth to Water Table from Original Ground Water Level Prior to Sampling

Based on the ground water elevations obtained at the monitoring wells, a ground water elevation contour map shall be developed on a map drawn to scale.



State of New Jersen

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E. DIRECTOR

LINO F. PEREIRA
DEPUTY DIRECTOR

AUG 0 3 1984

Mr. Jack E. Slater RFL Industries Inc. Powerville Road Boonton, NJ 07005

> Re: Notice of Violation EPA ID #NJD002156677

Dear Mr. Slater:

Pursuant to the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq. and regulations promulgated thereunder, specifically N.J.A.C. 7:26-9.13(b), the following facts are made:

FINDINGS

- 1) An examination of our files indicated that your facility listed land disposal activities specifically, TO2 treatment in an impoundment, on your RCRA Part A application.
- In accordance with N.J.A.C. 7:26-9.13(b) RFL Industries Inc. was required to demonstrate non-sudden liability insurance by submission of an originally signed duplicate of an insurance policy together with either a hazardous waste facility liability endorsement or a hazardous waste facility certificate of liability insurance, providing coverage of at least three (3) million dollars per occurrence with an annual aggregate of at least six (6) million dollars, exclusive of legal defense costs, by the following dates:
 - (1) For an owner or operator with sales or revenues totaling \$10 million or more, by April 8, 1982.
 - (2) For an owner or operator with sales or revenue greater than \$5 million but less than \$10 million, by April 8, 1983.
 - (3) For all other owners or operators, by April 8, 1984.

3) To date RFL Industries Inc. has failed to submit the required non-sudden liability insurance documents to the Bureau of Hazardous Waste Engineering in violation of N.J.A.C. 7:26-9.13(b).

NOW, THEREFORE, YOU ARE HEREBY NOTIFIED that your facility shall submit the required non-sudden liability insurance documents within thirty (30) days of receipt of this NOTICE to Mr. John Barry, Bureau of Compliance and Enforcement, 120 Route 156, Yardville, New Jersey 08620.

BE ON NOTICE that the Solid Waste Management Act provides for penalties of up to \$25,000 per day for violation of the Department's hazardous waste management regulations. Your failure to correct the above violation will result in a penalty action by this Department up to the maximum allowed pursuant to law.

If you have any questions regarding the documents to be submitted, please contact Mr. Ben Esterman at the Bureau of Hazardous Waste Engineering at (609) 984-4061.

If you have any questions regarding this Notice and the required report, please call Mr. John Barry at (609) 984-3695.

Very truly yours,

David J. Shotwell

Chief Bureau of Compliance

and Enforcement

F010:F014:1mc





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State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WASTE MANAGEMENT

CN 407 - Trenton, NJ 08625

DR. MARWAN M. SADAT, P.E. DIRECTOR

LINO F. PEREIRA DEPUTY DIRECTOR

JUL 1 4 1986

Dowty-RFL Industries, Inc. Powerville Road Booton, New Jersey 07005

Attention: Steven R. Gilliatt

Re: Notice of Violation and Penalty Settlement Offer

Dear Mr. Gilliatt:

Pursuant to the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq. and regulations promulgated thereunder, specifically N.J.A.C. 7:26-7.4(a)3, 7.4(e)4, 9.3(a)3, 9.4(d)4v, 9.4(d)5, 9.4(g)5, 9.4(g)6i, 9.4(g)6ii, 9.4(g)6iv. the following findings of fact are made:

FINDINGS

- The New Jersey Department of Environmental Protection (hereinafter "the Department") has determined that Dowty RFL Industries, Inc. (hereinafter "Dowty") is a generator of hazardous waste (EPA ID Number NJ002156677) as defined by N.J.A.C. 7:26-1.4 and is located at Block 12, Lot 20, Powerville Road, Booton Township, County of Morris, New Jersey.
- 2) During a routine Departmental inspection conducted at the above referenced location on January 31, 1986, the following violations were observed.
 - a. Dowty failed to prepare a manifest before offering hazardous waste for transportation for the purpose of off-site, treatment, storage or disposal, in violation of N.J.A.C. 7:26-7.4(g)3.
 - b. Dowty shipped hazardous waste to a site which is not an authorized hazardous waste facility, in violation of N.J.A.C. 7:26-7.4(e)4.

New Jersey Is An Equal Opportunity Employer

ATTACHMENT P1

- c. Dowty failed to clearly mark, upon each hazardous waste container, the date upon which each period of accumulation begins, in violation of N.J.A.C. 7:26-9.3(a)3.
- d. Dowty failed to arrange every hazardous waste container so that its identification label is visible, in violation of N.J.A.C. 7:26-9.4(d)4v.
- e. Dowty failed to inspect areas where hazardous waste containers are stored, at least daily, looking for leaks and for deterioration cause by corrosion or other factors, in violation of N.J.A.C. 7:26-9.4(d)5.
- f. Dowty failed to have facility personnel successfully complete the program required under N.J.A.C. 7:26-9.4(g)1-3, with six months after the date of their employment, in violation of N.J.A.C. 7:26-9.4(g)4.
- g. Dowty failed to have facility personnel take part in an annual review of the initial training required under N.J.A.C. 7:26-9.4(g)1-3, in violation of N.J.A.C. 7:26-9.4(g)5.
- h. Dowty failed to prepare and maintain the following records and documents at the facility:
 - hi. The job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job in violation of N.J.A.C. 7:26-9.4(g)6i.
 - hii. A written job description for each position listed under subparagraph 9.4(g)6i, in violation of N.J.A.C. 7:26-9.4(g)6ii. This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but shall include the requisite skill, education, or other qualifications, and duties of employees assigned to each position, in violation of N.J.A.C. 7:26-9.4(g)6iii.
 - hiii.A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under subparagraph 9.4(g)6i, in violation of N.J.A.C. 7:26-9.4(g)6iii.
 - hiv. Records that document that the training or job experience required under paragraphs 9.4(a)1 through 5 has been given to, and completed by, facility personnel, in violation of N.J.A.C 7:26-9.4(g)6iv.
- 3) On January 31, 1986 Dowty was issued a field Notice of Violation for the violation referenced in paragraph 2 above.

By letter dated February 18, 1986 Dowty responded to the January 31, 1986 field Notice of Violation. Based upon Departmental review of said letter and a follow up inspection conducted on February 24, 1986, it has been determined that Dowty is in compliance of the violations referenced above.

N.J.S.A. 13:1E-9c provides for maximum civil penalties of \$25,000 per day for violations of this nature. In accordance with N.J.S.A. 13:1E-9d, the Department is amenable to compromise and settle this statutory claim for penalties for the aforementioned violations for the sum of \$2,375.00. Should you decide to accept this Penalty Settlement Offer, payment must be made within fifteen (15) calendar days of your receipt of this letter. Only checks or money orders drawn to the New Jersey Department of Environmental Protection will be accepted.

Should you decide not to accept this Penalty Settlement Offer or fail to forward payment within fifteen (15) calendar days of receipt of this letter, this offer is rescinded and this matter will be referred to the Office of the Attorney General for the initiation of litigation seeking the full penalties allowed by law.

Acceptance of this Penalty Settlement Offer does not relieve you from immediately complying with the sections of the New Jersey Administrative Code cited above. Each day the violation continues shall be considered a separate violation subject to penalties of up to \$25,000.00 per day.

Should you wish to discuss the specifics of this Notice and Offer, contact David Longstreet at 201-299-7567.

Be advised that such discussion will not automatically delay or otherwise extend the deadline for acceptance of this Penalty Settlement Offer.

Very truly yours,

Ronald T. Corcory

Acting Assistant Director

Enforcement - Division of Hazardous

Waste Management

Premi HWM this 4/11/

DIVISION OF HAZARDOUS WASTE MANAGEMENT 5th Fl., 401 E. State St., Transon, N. J. 08625 1259 Rt 46 Parsippany NJ 07826

(201) 299-7573

NOTICE OF VIOLATION

	·
ID NO	NJDØØ2156677 DATE 11/17/87
NAME OF	FACILITY Dowty RFL Industries Inc
	ON OF FACILITY Powerville Rd, Boonton NJ
-	OPERATOR Jack States; Facility Manager
You are	hereby NOTIFIED that during my inspection of your facility on the above date, the following
untation	of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C.
7 20 1 6	seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A.
58:10-23	3.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed.
Those vi	olation(s) have been recorded as part of the permanent enforcement history of your facility.
C	DESCRIPTION OF VIOLATION
٠	NTAC 7:26-9.7(c) Contingency plan does not describe
	ction to be taken by facility personnel in response to
·	
4	the explosion or other unplanned emergency
Ū	NJAC 7:26-9.7(e) Contingency plan does not describe
a	rangements agreed to by local fire departments, police
A	expetals, energency coordinators.
	l action to correct these violations must be initiated immediately and be completed by
	m/kn 15, 1987 . Within fifteen (15) days of receipt of this Notice of Violation, you
	mit in writing, to the investigator issuing this notice at the above address, the corrective measures
•	e taken to attain compliance. The issuance of this document serves as notice to you that a
	has occurred and does not preclude the State of New Jersey, or any of its agencies from initi- rther administrative or legal action, or from assessing penalties, with respect to this or other
	s. Violations of these regulations are punishable by penalties of \$25,000 per violation.
ž	Carolina C Seilia
copy	Investigator, Division of Waste Management Department of Environmental Protection
	-8343 ATTACHMENT Q
	* ^ ~ ~

IFRSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT

TO: New Jersey State Department of Environmental Protection Bureau of Air Pollution Control P. O. Box 1390 Trenton, New Jersey 08625

Date Aug 15, 19	72
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Use instructions, Air-D13

•	1. Full Business Name_R. F. L. Industries Inc. 2. Address of equipment and/or control apparatus: Recentor Two Morris									
Sec. A	No. Street Municipality County									
	 Location on premises (Bldg., Dept., area etc.) <u>Between Bldg 5&6</u> Nature of Business <u>Electronic Manufacturer</u> <u>SIC No. 3661</u> 									
Sec. B	New process equipment and new air pollution control apparatus New air pollution control apparatus on existing process equipment New process equipment with no control apparatus Other:									
	2. Prior permit numbers covering this installation. Specify none 3. Estimated starting date Aug 30 Estimated completion September 15, 1972									
	1. Description of operation On site incineration of trash and garbage									
Sec. C	 Identify process equipment Smokatrol Incinerator W/Patented Afterburner Raw materials (names) wood, paper, sweepings, garbage 									
	Total pounds per hour 150 -250 Total pounds per batch									
	Physical and chemical nature of air contaminants which must evolve from operation and be emitted into the open air:									
	AMOUNTS OF CONTAMINANTS									
	With Control Apparatus Without Control Apparatus									
	particulates, smoke odor, fly ash less than 0.2gr particulates									
Sec. D	per scf-flu qas gases									
	corrected to 12% odors									
	CO2 odors dest- smoke									
	ructed, less than									
	No.1 Ringleman									
•	no fly ash									

ATTACHMENT RI

		Describe air pollution control apparatus <u>Smokatrol Incinerator</u> with patented afterburner located at stack level
	. (see test results attacked)
	2.	Efficiency of control apparatus: 99 %
	3.	Height of discharge above ground 19 ft.
.E	4.	Distance from discharge to nearest property line 80 ft.
İ	5.	Volume of gas discharged into open air 1140 cu. ft. per min. at stack conditions
٠	6.	Exit linear velocity at point of discharge 900 ft. per minute at stack conditions
	7.	Temperature at point of discharge 1600 or at afterburner chamber
	8.	Will emissions comply with existing local requirements? yes
	9.	Initial cost of control apparatus \$ 975.00
	10.	Estimated annual operating cost \$ 350.00

This application is submitted in accordance with the provisions of N.J.S.A. 26:2C-9.2, and to the best of my knowledge and belief is true and correct.

R. F. L. Industries	- Mefell dans						
Powerville Rd.	Signature - all copies R. W. Seabury III						
Boonton, N.J.	Name (Print or type) Secretary						
Mailing Address 07005	Title 201 334 3100						
Zin Code	Telephone No.						

DO NOT WRITE BELOW

PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT

Application for permission to construct, install or alter the equipment and/or control apparatus as set forth above is APPROVED.

Date 10.4.72

PERMIT NO. 7.8944

Approved by: _

Supervisor, Permits & Certificates

Submit original and three (3) copies

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION APPLICATION FOR CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

TO: New Jersey State Department of Environmental Protection Bureau of Air Pollution Control P. O. Box 1390 Trenton, New Jersey 08025

Date Aug 15, 1972

Use Instructions, Air-D-14

	O Se Instruction A
	1. Reference Permit No. SIC No. 3661
	2. Full Business Name R. F. L. Industries Inc.
Sec. A	3. Address of equipment and/or control apparatus:
	Powerville Rd. Boonton Morris
1	Street State County County
	4. Location on premises (Bldg., Dept., area, etc.) Between Bldg. 5&6
	1. Identify process equipment Smokatrol Incinerator W/Patented
	Afterburner located at stack level Model 200
Sec. B	2. List air pollution control apparatus Patented afterburner located at
	stack.level
•	3. Date equipment to be put in useSeptember_15, 1972
	
!	Plant Contact:
Sec. C	R. W. Seabury III 201 334-3100
	Name (Print or Type) lelephone No.
+	Secretary
	Title Telephone Extension
his applicat	d belief in accordance with the provisions of N.J.S.A. 26:2C-9.2, and to the best of my
nowledge and	d belief is true and correct.
	Industries Inc.
	Signature - all copies
wervill	
onton,	N.J. Olccs Name (Pant or Type) Secretary
uling Addres	ss, Zip Tule
	DO NOT WRITE BELOW

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT								
TEMPORARY DURATION	5 YEAR DURATION							
Certificate No.	centicate No. C 70 SC							
Date Approved	Date Approved 5.13.13							
Expiration date	1 spiration date 3:13378							
Approved by:Supervisor, Permits & Certificates	Approved by: Suprousor, Pennits & Conflicates							

R3

July 17, 1978

R.F.L. Industries, Inc. Powerville Road Boonton, New Jersey 07005

Reference: Certificate No. CT-7089

Expiration Date - February 13, 1978

Permit No. P-8944

Dear Sir:

A field inspection by the Bureau of Air Pollution Control on May 8, 1978 determined that equipment covered under the above referenced "Certificate to Operate Control Apparatus or Equipment" is no longer operated by your company. Consequently, the referenced operating Certificate, is hereby cancelled.

Prior to any future operation of the equipment formerly covered by this Certificate you must apply for a new "Certificate to Operate Control Apparatus or Equipment".

If you should have any questions relative to this matter, please feel free to contact the undersigned at 609-292-6716.

Very truly yours,

Allan T. Edwards, Supervisor Permits & Certificates Section Bureau of Air Pollution Control

ATE:rv

cc: Field Office - Metro



State of New Versey

DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

P. O. BOX 2809 TRENTON, NEW JERSEY 08625

April 27, 1978

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Richard Seabury, III RFL Industries, Inc. Powerville Road Boonton, New Jersey 07005

Re: RFL Industries, Inc.

Wastewater Disposal System

Dear Mr. Seabury:

This letter is in reference to the industrial wastewater disposal system (evaporation pond) at RFL Industries, Inc., Powerville Road, Boonton Township.

On September 7, 1977 samples were taken of the plating wastewater from the evaporation pond by a representative of the Department. The analysis indicates that the wastewater is as follows:

Iron	2.0 mg/l
Lead	2.3 mg/l
Copper	3.88 mg/l
Nickel	.184 mg/l
Cyanide	.05 mg/l
Chromium Total	.043 mg/l
Zinc	.083 mg/l
Cadmium	.006 mg/l
COD	137 mg/l
Total dissolved Solids 620) mg/l
Hq	3.9 SII

Further investigation by this Department revealed that the present evaporation pond is inadequate to prevent wastewater percolation into the groundwater and that RFL does not have approval to use the evaporation pond as a disposal method in violation of NJSA 58:10A-1 et. seq.

In a subsequent letter dated February 3, 1978, RFL Industries, Inc. submitted to this office information concerning corrective measures for the wastewater disposal system including flow reduction, increased scavaging, change in plating solution and evaporation pond modification. In order to insure that the corrective measures establish compliance with NJSA 58:10A-1 et. seq., the Department is, therefore, directing RFL Industries to make application to this office for a Stage I conceptual approval for an Industrial Wastewater Treatment Facility, on or before June 30, 1978. A tentative construction schedule should be included with the application. Enclosed is a copy of the cutline to be used in making your Stage I submission and a copy of the regulations (NJAC 7:14-1 et seq.,) concerning wastewater treatment facilities.

RFL Industries, Inc., is further directed to submit to this office a monthly report, beginning June 1, 1978, detailing the progress made to date and continuing until advised otherwise by this office.

If there are any questions concerning the above please contact Mr. Robert Plumb at (201) 648-2200.

Very truly yours,

Robert J. Reed

Supervisor of Field Operations Passaic-Hackensack Basin Water Pollution Control Monitoring, Surveillance and Enforcement Element

A4:G19

cc: Mayor and Council, Boonton Township
Mrs. Nelson

Chem-25 Sept. 75	MARS IN MASTE	EWATER ANALYSIS	Time & Date Received
	NU DEPT ENV PROFIELDINF	ORMATION	
PLEASE TYPE OR PRINT WITH BALLPOINT PEN	DIX WATER RESOUNCES	Date of Collection	TRN 30 1929
WITH BALLPOINT FEIN		Hour	A.M P.M
Sample No. 036	30	Composite Period	Interval
		Collected by	Quet
Municipality LOCK 77	N Tap	Residual Chlorine: Immediate _	S
Plant PF1		Developed _	
Stream TPIB	E GOLXAUN	Flow Rate	
Lanation		Temperature	
Description and Remarks:	SAMPLE OF L	AGOON, OPPO:	SITE INFLUENT AFE
	ITEMS CIRCLED BELO	W ARE UNSATISFACTORY	41 1051 1061
Dilutions Re (Bacteriol	- , , , ,	10-1 10-2 10-3 10-	4 10.5 10.6
(Duovotio		DV DECLU TO	
	. –	RY RESULTS OLOGICAL	
O 116 MDN/100 1		ned Test); Fecal Coliform M	PN/100 ml
Coliform MPN/100 ml.		Other	1
Fecal Streptococci:MPN/	ON - SUSPECT C		ED BET TO CAN
CATONITO OCX	The DASPECT C	AND ETAPE	HEDYA TRUM
EDTA	TRISODIUM NITRI NODIACETATE	Teiner notos amis	is a second in the second in t
- ₹	A CHESTICAL AND BUVCICAL A	NALYSES (mgs./liter, unless oth	nerwise noted) (JUASRON)
SODIUM POTASSI			1 1
Color (units)	Chloride	Sulfate	Other Determinations
Odor (cold)	Suspended Solids	Grease & Oil	A CAGINANO DOM
Turbidity (units)	Ash	Cyanide	- michloroethave 480
pH	Total Solids	Chromium Total	trichlowofylene 22501
Acidity to pH 4	Ash	Chromium Hex.	TOLLIENE 55 pp
Alkalinity to pH	4 Total PO ₄	Ortho - PO4	- Chlosotoan 225 pp.
Nitrite N	MBAS	Copper	
Nitrate N	Phenols	Lead	- L E Villid
Ammonia N	COD	Arsenic	KD = KON-DETECTABLE: I. E. BELOW OFFICERABLE LIMITS RE MIND # 4
Total Kjel. N	Iron	Zinc	10.70
			FEB 2 7 1979
	BIOCHEMICAL O	XYGEN DEMAND (mgs./liter)	REPORT SUBMITTED

· t	SIUCHE	MICAL UX	CT GEN DEMAND INGS.	/iirer/	KCTU
h	DΩ		Sand Required:	Ves	DIV. UI LA

Field D.O.	Lab.	D.O. Seed Required: Yes				Yes	No No					
Sample Conc. %	PLEASE CIRCLE	0.1	0.2	0.5	1.0	2.0	5.0	10	25	50	75	100
BOD ₅		٠										

ATTACHMENT 52A



Chem-25 LNOWS Sept. 75 MINOR	MAR	MN 34 AM 17	WATER ANAL Q DRMATION	TER ANALYSIS			By Labs Lab. No.					
PLEASE TYPE OR PRINT WITH BALLPOINT PEN	NJ DEPT E	HY PROTECTION OF RESOURCE	a Hale of	Collectio	n <i>A</i>	CN .	<i>30</i>		1977			
		HS&E	Hour	11:1	0	A.M		P.M				
Sample No. <u>03629</u>		,	Compos	ite Perio	64	V3_	Interva	1	<u></u>			
Municipality Soon row	TAR		Collecte Residua	d by J l Chlorine Immedia	e: 🗻	nt			· · · · · · · · · · · · · · · · · · ·			
Plant P 1				Develop					· · · · · · · · · · · · · · · · · · ·			
	must.	A.	Flow R	-								
Location			Temper	•								
	MPLE	OF LA	, -		१३/स्ट्रे	! <i>-{N}</i>	C	vo R.	JIX_			
	ITEMS CI	 RCLED BELOY	V ARE UNSATI	SFACTOR				- -	. 			
Dilutions Requested (Bacteriological)	1	0 1	10-1 10-2	10-3	10-4	10-5	10-6					
Coliform MPN/100 ml.	1	BACTERI	RY RESULTS OLOGICAL ed Test); Feca		m MPN,	/100 ml		P. P. 19"/				
Fecal Streptococci:MPN/100 ml.	• • • • • • • • • • • • • • • • • • • •			Oth	: GN	= REN-DET	estable; 1. i dle limits a		4			
		·				FEB	2 7 19	79				
CHE	MICAL AND	PHYSICAL AI	NALYSES (mgs.	/liter, unle	ss otherv	REF viseyngte	PORT SUBMIT EXBORATORIE	TED S & EPID.				
Color (units) ND V	•Chloride	180	Sulfate		0- =	Otl	ner Dete	rminati	ons			
Odor (cold) III A N	Suspend	ed Solids 5	V Grease	& Oil28	77.8	1 1	3 0	. 362	3			
Turbidity (units) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Ash	4	Cyanid	e 0.0	1]		whim					
v pH 9.2 V	Total So	lids 730	Chrom	um Tota	7027	Wi	CK52_	0.7	(43			
Acidity to pH 4	Ash	542		ium Hex.		1 5:	LVER	N				
Alkalinity to pH 4	Total PO	0,38	Ortho .	PO4 0.	09	6 Cos	מנונאכ	0.0	0)			
Nitrite N	MBAS	<0.3	Copper	2,7	97		· · ·					
Nitrate N 4.5			1	0.0	. 0			* 1	•			
1 28 0	Phenols		V Lead	0,0	22							
Ammonia N 20.0 V	Phenols COD	276	Arsenio		22							
Ammonia N 28.0 V	COD		-			1 727	ROZEN	n His	RO CARDO			
Total Kjel. N 36.6	COD Iron	0.64	Arsenio	O. 06 ¹	F ND) (Z=7)	POLEN of prese		<u> 10 CA 1</u> 100 '5			
	COD Iron	O.64	Arsenio Zinc	O, 064	F ND) (Z) 3 No	Porting of property					
Total Kjel. N 36.6 V	COD Iron BIOC	O.64	Arsenio Zinc YGEN DEMAN	O, 064	ND er)) (25 25	-					

Chem-25 Sept. 75 MAR	(3-18	L MO	RWASTE	WATE	R ANALY	sis 🥃		By Lab	ite Wegetie S	u	
NJDI	FPT cur.			RMA	ATION			D. NO.			
EASE TYPE OR PRINT	WATER R MS 8	ESOUR	CES	•	Date of C	ollection	n <u>-Ź</u>	AN	30	· ., ·	19 🎢
					Hour	117	00	A.M.)	P.M	·
ample No			<u>.</u>	• •	Composit	e Period	<u> 69</u>	NB_	Interva	d	
		•			Collected			Puns	<u>/</u>		
Sunicipality BOONTON 9	Two.		<u> </u>	٠.	Residual (Chloria Immedia	e: ate		÷.		· ·
lant						Develop					• • •
tream TRIB to Foc	Le DW	0/0			Flow Rat	_	<u> </u>		·		
ocation	70			•	Temperat	ture					
Description and Remarks:	משק מקי	Z	- OF 1	100	soon,	_		177	FIRE	A	
rescription and remains.						<u> </u>					
							<u>.</u>			·:	
	ITEMS	CIRCLE			UNSATIS						
Dilutions Requested (Bacteriological)		10	1	10-1	10-2	10-3	10-4	10-5	10-6		
Commence of the second		LAB	ORATOR	RY R	ESULTS				•		
	• .		BACTERIO			, ",				· •	•
Coliform MPN/100 ml.		(Confirm	ed Te	est); Fecal	Colifor	m MPN/	100 m	ıl		
Secal Streptococci:MPN/100 ml						Oth			ij === Nun-us		. E. Belun Ke Mend #
			:					٠.			
									FEB	271	979
				٠.					D	EPORT SUEM	erren
CHEM	IICAL AI	VD PHY	SICAL A	NALY	SES (mgs./l	liter, unle	ss otherw	ise note	5Cl)		ies & epid.
Color (units) 5	Chlori	de	60		Sulfate	129	5	Ot	her Dete	erminati	ons
Odor (cold) TITA			olids 8	V	Grease &	t Oil 3.5	53.6	Ry	<i>j</i> 0	,737	
Turbidity (units) 14	Ash		6	V	Cyanide			1 2		M 0.0	
pH 9.2 V		Solids	728		Chromiu	ım Tota	039	1/1	ر اع ب		52
Acidity to pH 4	Ash	Donas	538	V	Chromiu				VER	Ŋ	- 4
Alkalinity to pH 4	Total	PO4	0.42	_	Ortho -				OMIUM	1 0.0	07
Nitrite N	MBAS		0,3		Copper			1		1	
Nitrate N 4.6	Pheno		<u> </u>	人	Lead	0.09					
Ammonia N 23.9	COD		26	+	Arsenic				· · ·		
	Iron		.32	1	Zinc	RU		1/2	222: 5	um sh	marca
Total Kjel. N 36.6 M	11011			1 7	Zilic			NOT			reserve
				.c	•.		ND	_		0	Tilliamiy Tarafiyat
		OCHEM	IICAL OX	YGEN	DEMAND	(mgs./li1	er)	- 1.5. 2.5. 2.5.			
							37				
Field D.O.	Lab.	D.O.	. 1	See	ed Require	ea:	Yes	100	No		
Field D.O. Sample Conc. % PLEASE CIPCLE	Lab. 1		0.5	- ;	ed Require	5.0	10	25	50	75	100
Field D.O. Sample Conc. % PLEASE CIRCLE BOD5	Lab. 1	D.O. 0.2	0.5	1.0	2.0			25	1	75	100

Chem-25 Sept. 75	By Labs Lab. No.
FIFI D.I	NEGRMATION
	Date of Collection — Jan 30 192
WITH BALLPOINT PEN HS&E	2011/7/
	Hour A.M P.M
Sample No	Composite Period 57775 Interval
	Collected by Toland Lumb
D . J Tun	Residual Chlorine:
Municipality Source Tup	Immediate
Plant	Developed
Stream TRIBTO FOCK XUINY	Flow Rate
Stream	~
Location	Temperature
Description and Remarks: FONO DI	SUABAGE 2 NO OF PIPE
ITEMS CIRCLED BE	LOW ARE UNSATISFACTORY
Dilutions Requested 10 1	10-1 10-2 10-3 10-4 10-5 10-6
(Bacteriological)	
(DuovotioroBrown)	

LABORATORY RESULTS
BACTERIOLOGICAL

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

(Confirmed Test); Fecal Coliform MPN/100 ml.

· ·		The state of the s					-	
\	J	Color (units) ND	\ <u>\</u>	Chloride 16	V	Sulfate 15		Other Determinations
- [1	Odor (cold) IA	M	Suspended Solids 2		Grease & Oil	ŀ	PIN ND
		Turbidity (units)	V	Ash /	1	Cyanide ND	V	DINMINUM 0.144
	V	рН 6.6	\mathbb{N}	Total Solids /06	V	Chromium Total 117	<u>\</u>	Alices 0,022
$\cdot \lceil$		Acidity to pH 4	V	Ash 50	M	Chromium Hex. ND	V	SLUER ND
		Alkalinity to pH 4	V	Total PO4 ND	•	Ortho - PO4 ND	V	CADMINIM 0,002
		Nitrite N	7	MBAS ∠o.3	1	Copper 0.008		
1	,	Nitrate N ND		Phenols	V	Lead ND		
	V	Ammonia N ND	V	cod 4		Arsenic	1	D = NON DETECTABLE; I. E. BELOV/ DEFECTABLE LIMITS RE MEMO # 21
	기	Total Kjel. N 0,72	·V	Iron 0.16	A	Zinc 0.030		Detectable finite of weight 45 45

FEB 2 7 1979

BIOCHEMICAL OXYGEN DEMAND (mgs./liter)

Lab.	D,O.		Seed	Require	ed:	Yes	OIV.	No No	tionies & I	P10.
0.1	0.2	0.5	1.0	2.0	5.0	10	25	50	75	100
									7.	

Sad

H 15

Field D.O.
Sample Conc. %

BOD₅

Coliform MPN/100 ml.

Fecal Streptococci:MPN/100 ml.

Chem-2	5	
Sept. 7	5	٠,

A JL LEY STATE DEPARTMENT OF HEAL

	Time &	Date Re	ceived
	Rut	ahe.	52.2.2.2.2.2
	, Dy L	203	VC 1. 12 17.
L.	iah Ne	0: 22.5	N. T.

L	EAS	Ε	TYF	'E (OR	PRI	NT	
14/1	Tu	0	A 1 1	DΛ	INIT	. 05	NI.	

NU DEPT ENV PROFIELDNINFORMATION

110 0 C	 7111U11		
DIV WATER RESOURCES			
··· MS&E	Date of Co	ollect	ion

Date of Collection	TRN	30	19	Z
			 ,	/ _
. /	4 . 5 .		•	

Sample No.	03	628
oumpic rio.		

Composite Period SARS Interval

Municipality SooN TON TWA

Collected by Residual Chlorine:
Immediate

Plant FFL
Stream TAIB to GOCKAWAY

Developed _____

Location ______
Description and Remarks:

POND INFLOSENT

TEMS CIRCLED BELOW ARE UNSATISFACTORY

Dilutions Requested • (Bacteriological)

***	J CITTOL		,,, ,,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	0110711	0171010			
- [10	1 "	10-1	10-2	10-3	10-4	10-5	10-6
1		4.	٠, ٠.	*	4	4		٠

LABORATORY RESULTS BACTERIOLOGICAL

Coliform MPN/100 ml.	 (Confirmed	Test); Fecal (Coliform MI	PN/100 ml.	
					and the second
Fecal Streptococci:MPN/100 ml	 		Other _		

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

1	Color (units) 5		Chloride //	7	Sulfate 15.5	Other Determinations
7	Odor (cold) I A	7	Suspended Solids &		Grease & Oil	ND ND
1	Turbidity (units) 16	2	Ash 7	7	Cyanide 0.005	Myuminum 0.192
. [pH 7.5	V	Total Solids /4/6	N	Chromium Total 0,039	Nickel 0.013
	Acidity to pH 4	7-	Ash 20	V	Chromium Hex. ND	SILVER ND
	Alkalinity to pH 4	ږ	Total PO4 0,06	V	Ortho - PO4 0.05	CADMIUM 0.001
	Nitrite N	V	MBAS < 0.3	V	Copper 0.005	
	Nitrate N ND		Phenols	Ņ	Lead ND	
	Ammonia N ND	7	cod		Arsenic	D = HON-DETECTABLE; I. E. BELOW
1	Total Kjel. N 0,39	>	Iron 0.36	1	Zinc ND	Defectable limits at Memo # 4

W.

FEB 2 7 1979

BIOCHEMICAL OXYGEN DEMAND (mgs./liter)

REPORT SUBMITTED -

Field D.O. Lab. D.O.					Seed Required: Yes DIV. UF LABORATORIES & EPID.							PID.
Sample Conc. %	PLEASE CIRCLE	0.1	0.2	0.5	1.0	2.0	5.0	10	25	50	75	100
BOD ₅	a grayer		71 0 1	i garaga i na sa	1. 香蕉		1 4 4		\$.N.	, , , ,	•	





210	Company of the second of the s	- K 100 15
E_{-1}	Date 2	11/26 - Time 7/27
	Sampling	Team Stan + Dops
	* ****	
	Well Sampling Sheet	
1.)	1.) Use of Water	
-	(1.0	e., Petable, Cooling cic.)
	3-) Geological Formation (aquifer). (Product product)	Euced, or Supplier (or Nomestid):
	additely.	
(6.)	b) 70-27 Ranes	morris
~ `-	7.) Comer Radio Free Lab Mailing Address:	Detropythe
		POWERVILLE
,		Phone: Area Code (20/)334-31
(ءة ِ	6.) Location of Well (if different from above):	stact Jock Stater/Richard.
	Town	Sea hury
	9.) Location of Tap Sampled hasement mo ul	Idens he tack
30.)	0-) 135= 0= 15=7T 464-C11 101 101 101	is a draily of land
11.)	/ -yp= of ruspers/and watering vertical to him	suppersible and on don -
	Z-Z-W-C-C-L (VVI) (X-1)	-, Sobmersione, Ellin.
7 }	Pump Capacity	t all con sumed on or hp.
(۔د	ETCLOT TETEDIONS CLOUDING EO NSEEL SAG	steat Yes No
24-1	+-/ +JP= or Water Treatment Units (if any) A	one (charcoalliters or
15.))-) Latorine Dosage and Letention Time (wt/volume):	Control of the Contro
16.)		TUL,
•	A. Continuous V B. Intermittent	C. Run for Sample
22.3	If B or C - Now long before collection of sample	7777111100
27.)		pacity gallons.
18.) 19.)		DC
21.)		
رسيد	.) Describe immediate area around well	
•		RFL Industries, Inc.
		RICHARD W. SEABURY III .
	(NOTE: Is there any stockpiling of chemical	CORPORATE SECRETARY VICE PRESIDENT, INDUSTRIAL RELATIONS
. :	the area paved or covered with vegetation and	
	crops, etc.) in other words describe it!!)	
22.)	POW:	ERVILLE ROAD TEL: (201) 324-3100 (TON, N. J. 07005 TWX 710-987-8352
	industrial comercial others)	
• • .	*Describe Drivor CUN SAID WITH	nd 0 4
23.)	.) Previous or current well problems: (including co	ntanination, high mineral
: ·	content, etc.)	
		••••
24.)	.) Additional Concents: Comer- une last.	*
· .	waste noter tracter in lagron	
-		
25) 🤅	.) Sketch (on back) well, septic tanks, lagoons, vez	etation, etc.
		CADI
•	appulat causa	(Spring wator

GROOP	النائية الم	ic form	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	D		•5
Conc:	(ug/l)	meth chloride		ND		-
		methyl bromide	,	ND		
		vinyl chloride		ND	•	
		methylene chloride		ND		• •
		chloroform		ND	·.	
		1,2 dichloroethane		ND		
		1,1,1 trichloroethane		4.24		·
		carbontetrachloride		ND	· · · · · · · · · · · · · · · · · · ·	
		1,1,2 trichloroethylene		0.72		
		dichlorobromomethane		ND		
		1,1,2 trichloroethane		ND		
		dibromochloromethane	· · · · · · · · · · · · · · · · · · ·	ND		
		1,2 dibromoethane	->	1.93		
7		1,1,2,2 tetrachloroethyl	ene '		. ·	
		bromoform		ND		·
	2 .	1,1,2,2 tetrachloroethan	e	ND	· · · · · · · · · · · · · · · · · · ·	
		diiodomethane	·	ND		
	,	m-dichlorobenzene		ND	****	
•		p-dichlorobenzene	٠٠٠ <u></u>	ND		
		o-dichlorobenzene	<u></u>	ND		
GROUP I	т	1,2,4 trichlorobenzence Aroclor 1016		ND	 	
Conc: (Aroclor 1016	,	ND	<u> </u>	·
		Aroclor 1248		ND		
•		Aroclor 1254	·	ND		
		α BHC		ND	·	
		γ BHC (Lindane)		ND		
	•	Б ВНС	7	ND		· · · · · · · · · · · · · · · · · · ·
		heptachlor		0.046	· · · · · · · · · · · · · · · · · · ·	•
		aldrin	7	ND		
		heptachlor epoxide		<u>40.010</u>		
	:	γ chlordane		40.010	· · ·	 .
	٠	p,p'- DDE		<u>40.010</u>		<u> </u>
	•	dieldrin		ND	<u> </u>	
	•	endrin		ND	•	
• .		o,p' - DDT	·	ND ND		
		p,p' - DDD		ND ND		
		p,p' - DDT		ND		and when it is a property of
	•	mirex		ND		A Company of the Comp
• .		methoxychlor		ND		
•		toxaphene		ND ND		
1-	0			ND		

53B

GROUP III	arsenic	<.001
Conc: (mg/l)	beryllium	<.001
	cadmium	<.001
	chromium	0.001
	copper	0.008
-	lead	0.004
	nickel	<.002
•	selenium	<.002
	zinc	0.012
		•
GROUP IV Conc: (mg/l)	TOC	0.572

(Continued)

Conc: (µg/1) dichlorcethylene (gem)

ND dibromomethane ND t-dichloroethylene 10.00

Arnold Schiffman Director

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

SEP 1 2 1980

R.F.L. Industries, Inc. Powerville Road Boonton, New Jersey 07005

Attn: Mr. Richard Seabury III

Re: Wastewater Treatment Facility R.F.L. Industries, Inc. Boonton Township

Dear Mr. Seabury:

On July 10, 1980, a representative of this Division collected water samples from your groundwater monitoring wells, water supply wells and your wastewater lagoon (see attached analyses). Samples collected from your monitoring wells indicated that a severe groundwater pollution problem has resulted from the discharge of pollutional materials into your unlined lagoon.

At the time of the sampling, concentrations of 2607 parts per billion (ppb) of trichloroethane, 1,243 ppb of trichloroethylene, 21 ppb of toluene, 56 ppb of tetrachloroethylene, and 83 ppb of 1,1,2,2 tetrachloroethane were detected in your discharge into the wastewater lagoon. In addition, 971 ppb of 1,1,1 trichloroethane, 660 ppb of trichloroethylene, 26 ppb of toluene, 18 ppb of tetrachloroethylene and 1.7 ppb of o-xylene were detected in the wastewater lagoon itself. Trichloroethylene, toluene, and xylene are considered as hazardous substances by the New Jersey Department of Environmental Protection. Trichloroethane, trichloroethylene, toluene, and tetrachloroethylene are listed as toxic pollutants by the United States Environmental Protection Agency. Of even greater concern, however, is that the groundwaters in the general area are likewise exhibiting significant quantities of these and similar organic Therefore, you are hereby directed to immediately cease all dischemicals. charges of industrial wastewaters to the waters of the State via the unlined wastewater lagoon, and to dispose of these wastewaters in a manner acceptable to this Department. Furthermore, this Department may require the drilling of additional monitoring wells to determine the areal extent of RFL's contamination



R.F.L. Industries, Inc. Page 2

of the groundwater aquifer. The Department may also require RFL to take additional steps to further safeguard and/or decontaminate the groundwaters affected by your lagoon.

This ban on the discharge of industrial wastewaters will continue in effect until such time as RFL provides proper and adequate wastewater treatment and disposal facilities, fully sanctioned by a Treatment Works Approval issued by this Division's Water Quality Management Element, and, if necessary and appropriate, a National Pollutant Discharge Elimination System permit from the U.S. Environmental Protection Agency. By copy of this correspondence, we are notifying Mr. Paul Kurisko, Chief of the Bureau of Industrial Waste Management, about the seriousness of this situation and requesting his staff's assistance in expediting the Treatment Works Approval process.

Failure to comply with the terms of this directive will result in the initiation of further enforcement action, which could include the assessment of Civil Administrative penalties, pursuant to N.J.S.A. 58:10A-1 et seq., and N.J.A.C. 7:14-8.1 et seq., under which you may be liable for penalties of up to \$5,000 for each violation. Finally, be advised that compliance with this directive does not exempt RFL from compliance with any applicable rules or regulations of the Department, or from penalties for the pollution of the waters of the State, as discussed above.

Should you have any questions concerning this correspondence, please contact the writer or Mr. Joseph A. Miller, Supervisor, Enforcement Unit, Region IV, at (609) 292-0576.

Very truly yours,

Joseph M. Mikulka, Manager Region IV Western Bureau of Compliance Enforcement Element

E34:G7

cc: Joseph A. Miller, Supervisor, Enforcement Unit, Region IV Gregory Cunningham, Enforcement Unit, Region IV Steven Johnson, Bureau of Groundwater Management Paul Kurisko, Chief, Bureau of Industrial Waste Management

Sept. 75	SEP 11 IU UZ HII U	Lab. No.
PLEASE TYPE OR PRINT	NUTER REDATE OF Collection	JULY 11 1980
WITH BALLPOINT PEN	MS&E Hour 10:15	A.M P.M
Sample No. <u>CO7487</u>	Composite Period C	GRAB Interval
Romer	Residual Chlorine:	EGORY CUNNINGHAI
Municipality BOONTON Plant RFL	Developed	
Stream	Flow Rate	
Location	Temperature	
Description and Remarks: Por	ND ADTACENT TO	LAGOON
ITEMS	CIRCLED BELOW ARE UNSATISFACTORY	
Dilutions Requested (Bacteriological)	10 1 10-1 10-2 10-3 10	0.4 10.5 10.6
	LABORATORY RESULTS BACTERIOLOGICAL	
Coliform MPN/100 ml.	(Confirmed Test); Fecal Coliform M	1PN/100 ml
Fecal Streptococci:MPN/100 ml	Other	
		• •

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

Color (units)	Chloride	Sulfate	Other Determinations
Odor (cold)	Suspended Solids	Grease & Oil	XV.O. SCAN ppb
Turbidity (units)	Ash -	Cyanide	TOLYENE 26
pH	Total Solids	Chromium Total	1, 1 trichlorothore 97
Acidity to pH 4	Ash	Chromium Hex.	trichloeoethylene 66
Alkalinity to pH 4	Total PO4	Ortho - PO4	tetrachlorosthylese 1
Nitrite N	MBAS	Copper	o-xylene
Nitrate N	Phenols	Lead	
Ammonia N	COD	Arsenic	RD + KON-DEFECTABLE; I. E. BALGW
Total Kjel. N	Iron	Zinc	ELECTRACE LEMIS & REST # 4

SEP 1 2 1980

RIOCHEMICAL	OXYGEN	DEMAND	(mas /liter)

		В	IOCHEM	IICAL O	XYGEN	DEMAN	D (mgs./li	ter)	- 1	REPORT SUB	MATTED	
Field D.O.	3117 N	Lab.	D.O.		Seed	Requir	ed:	Yes	GIV. GI	IV NO	ais & epu	
Sample Conc. %	PLEASE CIRCLE	0.1	0.2	0.5	1.0	2.0	5.0	10	25	50	75	100
BOD5											1	

			FI	AUG 10	ODA	ATION.			Lab. No.		· .	
	SE TYPE OR PRINT			ALL DEEP.	1 FN .	Dataion	un .	on	JULY	10	<u>,</u>	_ 19 <u>පි</u>
	H BALLPOINT PEN			BIV. R	H 5	& E Hour	10:6		_ A.M.	V	_ P.M	
Sam	ple No. <u>C0745</u>	Z					site Perio	od_61				
						•	ed by <u>G</u>		,			1
Min	nicipalityBOON_TO	7				Residua	al Chlori	ne: liate		21 1 1		
	ntRFL						Develo	•				
	eam					Flow R		Pcu			• ;	· .
	ation Powers	ell	le Rovi	<u>Q</u> -	4	Temper						
	crintion and Remarks:	• .	Lago	500		zompc.			•			
• % (\$.4 	THE REPORT OF THE PROPERTY OF				الريد المراجي	tan V	**					
			ITEMS CIRCI	LED BELO	WAR	E UNSATI	SFACTO	RY	* • 3 7			
	Dilutions Reques		10	1	10-	1 10-2	10.3	10-4	10-5	10-6		
	- (Bacteriologica	u)					1			<u> </u>	$x_i \in \mathcal{F}_{i,j}$	
		N. i. i.	LAI	BORATO			\$					
				BACTER								
	iform MPN/100 ml.	•		(Confire	ned T	est); Fec				1 = NGN-GET	CEPTARIA- I	E SEIGM
Fec	al Streptococci:MPN/100	ml					Ot	her				RE HEATO #
											4 4 40	
					:					AUG	1 4 19	80
		0.15	MOAL AND OU	VCICAL		ere (//:			RE	PORT SUBMI	TTED
3		CHE	MICAL AND PH	YSICAL A	MALY	SES (mgs.	./iiter, uni	ess otner	wise note	DIV. OF	LABORATORI	ES & EPID.
	Color (units)	X	. Chloride	80		Sulfate			Ot	her Dete	erminat	ions
- (*)	Odor (cold)		Suspended	Solids			& Oil		XFLU	ORIDE	- 20	>,
	Turbidity (units)		Ash		一人	Cyanid	e 0.00	71 K	XALL	DIM IND	M 0.	164
	pH	·X	Total Solids	520	> X	Chrom	ium Tot	g.010	XNIC		0.29	1
	Acidity to pH 4	X	Ash	366	X		ium Hex			JER C	.009	
	Alkalinity to pH 4	X	Total PO4	28.	X	Ortho -	PO4 2	5.3	XPET	ROLEU	U HTL	OKOCARE
	-Nitaito N # 164 Fat	έX	MBAS	1.2	X	Copper	0.85	50	X SPE	CIFIC	CON	07.981
	X Nitrate N 0.35	X	Phenols ${\cal O}$.052	×	Lead	0.05	11	x TC)(5 J
	Ammonia N 7.66	,	COD	- · · · · · · · · · · · · · · · · · · ·		Arsenio	3	•	X 1/.	0, 80	(an)	ppb
	Total Kjel. N	X	Iron O	391	×	Zinc	0.0	12	1,61	trich	loroe	thave "
		الحسب.						· ·,	trick	plore 2	Hyle	ve 6
									721	1040	•	
	•	•	ВІОСНЕ	MICAL O	(YGEN	DEMAN	D (mgs./li	ter)	1etea	chlor	PETH	sere .
*	Field D.O.		Lab. D.O.		See	d Requir	ed:	· Yes		No		- jira z.
	Sample Conc. % PLEASE CIRCLE		0.1 0.2	0.5	1.0	2.0	5.0	10	25	50	75	100
ا ما آنا در اینا فرزندگاری	BOD ₅								•			
		ş										

Sept. 75			AUG 10 . 1 ULI		Lab. No.	73 ,
PLEASE TYPE OR WITH BALLPOINT		FIELD IN	DIV WOTER RESULT HOUR9	REES lection 230	JULY	10 19 80
Sample No	C07451		Composite	Period . G K		terval
Municipality	BOONTON		Collected b Residual Ch Im	y <u>G, CO</u> nlorine: nmediate <u> </u>	NNINGH	AM
Plant	RFL		De	eveloped		
Stream	41 /		Flow Rate			
Location 102	verville Rood		Temperatu			December 1988
Description an	d Remarks: desch	large and	v lagor	ni mese	material de la companya de la companya de la companya de la companya de la companya de la companya de la compa	Committee to the second

ITEMS CIRCLED BELOW ARE UNSATISFACTORY

Dilutions Requested (Bacteriological)

10 1 10-1 10-2 10-3 10-4 10-5 10-6

LABORATORY RESULTS BACTERIOLOGICAL

AUG 1 4 1980

REPORT SUBMITTED

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise notes) OF LABORATIONES & EPID.

						ı —	
	Color (units)	KÌ	Chloride 18		Sulfate		Other Determinations
\prod	Odor (cold)		Suspended Solids		Grease & Oil	X	FLUORIDE 2.0.
	Turbidity (units)		Ash -	X	Cyanide 0.00 K	X	ALUMINUM 0,001 K
П	рH	X	Total Solids 304	X	Chromium Total, 019	X	NICKEL 0.706
П	Acidity to pH 4	X	Ash 164	y	Chromium Hex.005 K	X	SILVER 0.03/
	Alkalinity to pH 4	K	Total PO ₄ 2,3	X	Ortho - PO4 0.89	X	PETROLEUM HYDROCARGO
X	- Nitrite No N Hrate	У	MBAS 0.7	k	Copper 13.278	X	SPECIFIC CONDUCTIVITY
X	Nitrate N 4.0	X	Phenols 0.039	X	Lead 2.973	X	TOC 14.2 J
X	Ammonia N 0,42	Á	edd 6.e		Arsenic	X	V.O. Scan ppb
	Total Kjel. N	M	Iron 0.453	X	Zinc 0,047		13/1 trichlosoethans 26
, <u>.</u>		***				ns.	chlopa studion 12

TRICHIORO HYLEND

BIOCHEMICAL OXYGEN DEMAND (mgs./liter), Tetrachloroethylene

Field D.O. Lab. D.O.					O. Seed Required: Yes						No No			
Sample Conc	. %	PLEASE CIRCLE	0.1	0.2	0.5	1.0	2.0	5.0	10	25	50	75	100	
BOD ₅		The state of			* ,		. "::	^{ij} e rt ¥.	. ;	18.00	:	+ 42 JA		

PART I CHEMISTRY COPY

SYE

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oply FFL.	ついてひい					County MO		
inicipality 6		DAINITAGE	NAM	Memo #		Project # W		J .
	ANALYSES: C		ns determined by	the membrane filte	r technique are		onies per	100 ml.
	T				Coliform (Organisms	Chlorine	Residual
Sample Number		Point o	f Collection	O-Morand	Fecal	Total -	Free	Total
シゴムログ	Mariton	C104 11101	1	10:00 AM				
07460	Monitor	in and		10 45 AM				
07464	Montor	Cira Lua	11#3	1295 pm	n			· -
07477	1021/ h	of Sh 0-5	1.11 2/	5 1.30 pm	-		•	· ·
のイギカ与	111211	at bld.	35 /	2 00 por	•		•	<u> </u>
いアユヤ風	1410/1	nt bla	=14	2 30 pm				
ample Number	1454	7460	7464	ndards and/or Natio	1472	7475	7.4	10
ample Number	7454	7460	7464	Sample Number /	1471	7475	7.4	70 ,
color (10)			, , , , , , , , , , , , , , , , , , ,	Arsenic (0.05)		1.0,	1-3	
odor (III)	•	***		Barium (1.0)	<u> </u>	- Jan 1997	1	
urbidity (5)				Cadmium (0.010)				
ж			•	Chromium +6 (0.05)		****	<u> </u>	· ·
Alkalinity to pH 4		: .		Copper (1.0)	•	2	ļ	
Nitrate as NO ₃ (45)				Cyanide (0.20)			ļ <u>-</u>	
Chloride (250)			30	Lead (0.05)	12 1 - 1	2004/20		· · · · ·
Total Dis. Solids (500)			2.6	Mercury (0.002)	1. T. dichlos	cothene	-	·
ABS/LAS (0.5)		16.1		Selenium (0.01)	+3/ 1952	2		
Total Hardness (150)		26.0	1,0	Silver (0.05)	trichlos	2 strules	<i>1</i> /2.	
Total Iron / (0.3)		1.3		Phenol (0.001)	that be	WIPNE		•
Manganese (0.05		2.5		Endrin (0.0002)	112-121	Galacit	1 200	,
Sodium (50		1.1		Lindane (0.004)	Cap his	Letanos	4.2	10
Sulphate \ (250		9,0		Methoxychlor (0,1)	15/11/10	00 - 2/1-	ي ا	
		2.8	7.4	Toxaphene (0.005)	Internals	1- n= +L1.	1,	
Fluoride 12.0	: 1	1.7		2.4-D (0.1)	71-100-50	231		
Fluoride \ (2.0		1		Silvex.(0.01)-	PONT PAGE		<u> </u>	<u> </u>
Zine (5.0		/			1	_	111	
Zinc (5.0	0.3	<u> </u>			TRE-6 1020	JUDROM	<u>م. در در در در در در در در در در در در در </u>	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Zine (5.0	2,3	22 6	11.1		T	MOROR +	· 1	
Zinc (5.0	0.3	22.5	1/.1		111-1Ric		· 1	

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upply iunicipality				•		Date Collecte	ed	
ollected by				_ Memo #		Project # W-		
ACTERIOLOGICAL	ANALYSES: C	Coliform organism	ns determined by s are reported in	the membrane f	ilter technique a	re reported in co	olonies per	100 ml
					Coliforn	n Organisms	Chlorine	Residua
Sample Number		Point o	f Collection .	**	Fecal	Total	Free	Tota
	•			·				
							· ·	ļ <u></u>
•								
						•		<u> </u>
	No.				•		-	ļ
	N	· ·					·	ļ
	1 1 1 1 1			•				-
•								:
			· · · · · · · · · · · · · · · · · · ·					
PHYSICAL — CHEMI	•	the N. J. F	Potable Water Sta	rexcept color, od andards.	lor, turbidity, and			es are
	•	the N. J. F	Potable Water Sta	rexcept color, od	lor, turbidity, and	Sample Numbe		es are
PHYSICAL — CHEMI Sample Number Color (10)	7472	S: Determina the N. J. F	tions are in photosomers of the control of the cont	rexcept color, oc	lor, turbidity, and			es are
Sample Number	•	the N. J. F	Potable Water Sta	rexcept color, oc	lor, turbidity, and	Sample Numbe Arsenic Barium		es are
Sample Number Color (10)	•	the N. J. F	7478	rexcept color, oc	lor, turbidity, and	Sample Numbe	r	es are
Sample Number Color (10) Odor (III) Turbidity (5)	7472	the N. J. F	7478	rexcept color, oc	lor, turbidity, and	Sample Numbe Arsenic Barium		es are
Sample Number Color (10) Odor (III) Turbidity (5)	7472	the N. J. F	7478	rexcept color, oc	lor, turbidity, and	Sample Numbe Arsenic Barium Cadmium	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pii Alkalinity to pH 4	7472	the N. J. F	7478	rexcept color, oc	lor, turbidity, and	Sample Numbe Arsenic Barium Cadmium Chromium +6	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pii Alkalinity to pH 4 - Nitrate as NO ₃ (30)	7472	the N. J. F	7478	rexcept color, oc	lor, turbidity, and	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250)	7472	the N. J. F	7478	rexcept color, oc		Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pii Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500)	7472	the N. J. F	7478	rexcept color, oc		Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pri Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5)	7472	the N. J. F	Potable Water Sta	andards.		Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pii Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150)	7472	the N. J. F	Potable Water Sta	mitty inc	chloride	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Salemum Silver	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pii Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total ron (0.3)	3.2	the N. J. F	Potable Water Sta	metly ina	chluride Roothylore	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Salemium Silver Zine	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pii Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total Iron (0.3) Manganose (0.05)	7472 3.2 1.4 8.1	the N. J. F	7478	metly inches	chluride Roothylore	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Salemium Silver Zinc	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pri Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total ron (0.3) Manganèse (0.05) Sodium (50)	3.2	the N. J. F	5.0 9.8	methy inching trichlor	chloride Rothyloxe Detryloxe hlorocti	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Salemum Silver Zinc	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pii Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total Iron (0.3) Manganèse (0.05) Sodium (50) Sulphate (250)	7472 3.2 1.4 8.1	the N. J. F	5.0 9.8 2.7	methy ine tetrachle trichlor trichlor	chluride Rodhyline Detrylen hloroeth	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Salemum Silver Zinc	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pri Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total ron (0.3) Manganèse (0.05) Sodium (50)	7472 3.2 1.4 8.1	the N. J. F	5.0 9.8 2.7 0.9	methy inated the trichlor lilitation to the children chil	chluride Roothylore Definite Aloroeth Ofluoron larchlori	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Salemium Silver Zine	r	es are
Sample Number Color (10) Odor (III) Turbidity (5) pii Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total Iron (0.3) Manganèse (0.05) Sodium (50) Sulphate (250)	7472 3.2 1.4 8.1	the N. J. F	5.0 9.8 2.7	methy inated the trichlor lilitation to the children chil	chluride Roothylore Definion hloroeth ofluoron larhlori oroethylore	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Salemium Silver Zine	r	es are

546 SHEET 2 - WATER PURVEYOR

And the second s	NEW JERSEY			שר בואַעורטואואיבו		ورورورو مسرور		. % - 24 341 - 2=
ر مسید در این از این از این از این از این از این از این از این از این از این از این از این از این از این از ای در مسید در این از این از این از این از این از این از این از این از این از این از این از این از این از این از ا	TABULA	TION OF	LYTICAL DAT	TA FROM PUBLIC \	WATER	LY ⁽⁾ County <u>Add</u>		
Supply						Date Collecte		
Municipality	NE TO N							ii.
Collected by	GCRY C	DELINE FOR	<u> 기작전</u>			Project # W-		
BACTERIOLOGICAL	ANALYSES: Co	oliform organism Norine residuals	s determined by are reported in	the membrane filter ppm.	technique are r	eported in c		
					Coliform C			Residual
Sample Number		Point of	Collection	71 px 2 0-110001	Fecal	Total -	Free	Total_
1407454	Monitor	100 /1101	<u> </u>	1000 AM				
07460	MARITORI	no wo	<u>1772</u>	10 F. F. A.W.				
007464	Montor	Tha 1110	1193	12 75 700	,		<u> </u>	-
107472	1000 11 m	The rate	1111 =1				 	<u> </u>
2人与华 切石		at 6/H.	41	3 - A Diest			<u> </u>	
7.7270	1/10/1	n+ bld	#14	230 240			<u></u>	<u> </u>
				ob i	•			£
PHYSICAL - CHEM	ICAL ANALYSE	S: Determinat	ions are in	, except color, odor, and ards and/or Nation	turbidity, and p	H. Figures i	n parentne ons.	ses are iro
		the N. J. P	otable Water St	andards and/or Wattor	// / / / / / / / / / / / / / / / / / /		(<u>)</u>	
Sample Number	7754	7460	7464	Sample Number	7472	7475	74	70 1
· 				Arsenic (0.05)		·	2	<u> </u>
				Barium (1.0)	Alla	- 1		··
		***		Cadmium (0.010)		7 .	<u> </u>	
Turbidity (5)				Chromium +6 (0.05)		1.181	4.7	
pH				Copper (1.0)	•		<i>H</i>	: <u>.</u>
Alkalinity to pH 4				Cyanide (0.20)		i sel		1,200
Nitrate as NO ₃ (45)			3.0	Lead (0.05)	1-7 dichte	200thel	PNI	
Chloride (250)				Mercury (0.002)		colhar		
Total Dis. Solids (500)	_	11.1	2.6					
ABS/LAS (0.5)		16.1	/ 2	Selenium(0.01)	torchios	$T: L \to I$	دروم	.:: :
Total Hardness (150)		26.0	(,,0	Silver (0.05)	, ,	NZENE	1 .	
Total Iron / (0.3)		1.3		Phenol (0.001)		2,7,700		
Manganese - (0.05		2.5		Endrin (0.0002)	1 1 7 -101	19/200	1/ 7 21	
Sodium / \ (50)	1.1		Lindane (0.004)	(20 pin	16:125	7-4- ru	(4
Sulphate \ (250		9,0		Methoxychlor (0,1)	1371	10000	4-4-2	
Fluoride \ (2.0		2.8	7.4	Toxaphene (0.005)	laks gola	1225 24	10 / 2 -	
Zinc \((5.0)	1 1	1.7	I	2.4-D (0.1)	Alsont) RM		
A/A/TA	0.3			Silvex (0.01)	FRN7. PAY	2 22 E G	<u> </u>	
	2.3				TRI-1.102	LUORE	me ho	120 E
reanics	1.3	22.6	11.1		111 ARIC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/1 7 N	٠,= ٠,٠
		7 1 1	2 9 9 9 3		the second size of the	noth	market	

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upply funicipality	`\				<u> </u>		_ Date Collecte	ed	
Collected by				_ Memo #	· · ·		Project # W-		
BACTERIOLOGICAL	ANALYSES: C		ns determined b	the membrane				olonies per	r 100 ml
					(Coliform	Organisms	Chlorine	
Sample Number	,	Point o	of Collection			Fecal	Total	Free	Tota
		<u> </u>	·						+
•		¥ + 54	· <u>-</u> · · · ·	• • • • •			. !		-
				<u>, 47% /</u>		<u> </u>			7.
	The second secon					-			1
			<u> </u>			 		1.2	-
								•	7,
			/ •==	<u> </u>		· · · · · · · · · · · · · · · · · · ·			
			\c :	<u> </u>					+ :
The same of	e de jour de la company de la	 							
PHYSICAL — CHĒM		the N. J. P	Potable Water St	rexcept color, or andards.	dor, turbid	lity, and			ses are
PHYSICAL — CHEMI Sample Number	T472	S: Determinate the N. J. P	tions are in ppm Potable Water St	rexcept color, or andards.	dor, turbid	lity, and	Sample Numbe		ses are
Sample Number Color (10)	7412	74 15	74.75	rexcept color, or andards.		***	Sample Numbe		ses are
Sample Number Color (10) Odor (III)	7472	the N. J. P	Potable Water St	rexcept color, or andards.			Sample Numbe Arsenic Barium		ses are
Sample Number Color (10) Odor (III) Turbidity (5)	7472	74 15	74.75	rexcept color, or andards.		***	Sample Numbe Arsenic Barium Cadmium	r 1000 1000 1000 1000 1000 1000 1000 10	ses are
Sample Number Color (10) Odor (III) Turbidity (5) pH	7472	the N. J. P	74.75	rexcept color, or			Sample Numbe Arsenic Barium Cadmium Chromium +6	r 1000 1000 1000 1000 1000 1000 1000 10	ses are
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4	7472	the N. J. P	74.75	rexcept color, or andards.			Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper	r	
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30)	7472	the N. J. P	74 7	rexcept color, or andards.			Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide	r	
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250)	7472	the N. J. P	74.75	andards.			Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper		
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500)	7472	the N. J. P	74 7	andards,			Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead		
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5)	7472	the N. J. P	74 7	andards,			Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury		
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150)	7472	the N. J. P	74 7	methy le ne	chlor	ides	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Selenium Silver		
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total Iron (0.3)	7472	the N. J. P	74 7	methy le netervachl	chlori Roeth	des	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Selenium Silver Zinc		
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total Iron (0.3) Manganese (0.05)	7472	the N. J. P	74 7	methy le netervachl	chlori Roeth	des	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Selenium Silver Zinc		
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total Iron (0.3) Manganese (0.05) Sodium (50)	7472	the N. J. P	74 7	metiglene tetrachi trichlor	chlori Roeth	des gleve	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Selenium Silver Zinc		
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total Iron (0.3) Manganese (0.05) Sodium (50) Sulphate (250)	7472 3.2 1.4 9.3	the N. J. P	74 7	methylene tetrachlore lill trichlor	chloring the horach	des yleve ylene ethan	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Selenium Silver Zinc		
Sample Number Color (10) Odor (III) Turbidity (5) pH Alkalinity to pH 4 Nitrate as NO ₃ (30) Chloride (250) Total Dis. Solids (500) ABS/LAS (0.5) Total Hardness (150) Total Iron (0.3) Manganese (0.05) Sodium (50)	7472 3.2 1.4 4.1 8.3	0.5	74 7. 74 7. 5.0 9.8	metiglene tetrachi trichlor	chloring the horach	des yleve ylene ethan	Sample Numbe Arsenic Barium Cadmium Chromium +6 Copper Cyanide Lead Mercury Selenium Silver Zinc		

547 SHEET 4 - BACTERIOLOGY LAB

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JAM

RFL Industries Inc. 500 RCES

Boonton, New Jersey 07005 • Tel: (201) 334-3100 • TWX: 710-987-8352 • Cable: RADAIRCO, N. J.

19/0

October 9, 1980

Department of Environmental Protection Division of Water Resources P. O. Box CN-029 Trenton, New Jersey 08625

Attention: Mr. Joseph M. Mikulka Manager

Region IV Western Bureau of Compliance

Dear Mr. Mikulka,

In reply to your letter of September 29, we herewith submit information and our plans regarding the three specific topics delineated at our meeting of September 25th.

Industrial waste waters discharged into our Boonton Township plant lagoon result from the manufacture of printed circuit boards and the chemical treatment of aluminum and steel preparatory to painting with water based acrylic paints. Virtually all of the 700 products presently assembled in our Boonton Township plant contain one or more circuit boards, and these boards are mounted in metal chassis and cabinets. tion to supplying production quantities of these products, the facilities also serve our engineering department for experimental and prototype models. We became involved in these operations many years ago to preserve our required short lead times, quality, and competitive costs. We produce boards for our engineering department in less than a week and schedule production quantities as required by our master schedule within a two week period. Upon receipt of your September 12 letter, we contacted three PC board suppliers and requested prices and delivery on various quantities of 100 different boards. Their quoted deliveries ranged to two months, and their prices were unfavorable in comparison to our in-house costs.

Most damaging would be the effect, over the next few months, on our scheduled shipments (listed as BACKLOG on the enclosed SALES ORDER STATUS report as of 9/30/80) which are at the rate of \$1,200,000 per month. Delivery delays would cause hardships to many of our customers, would adversely affect our reputation with these customers, and we would most certainly have to release many of our production and supervisory personnel, because there is no way to recoup the costs of lost shipments.

Department of Environmental Protection Division of Water Resources Trenton, New Jersey 08625 October 9, 1980

Mr. Joseph M. Mikulka

Page 3

6/1/82 Receive equipment and begin installation.

8/1/82 Complete installation and test.

10/1/82 Start-up and achieve compliance.

We will be eager to shorten this schedule if information and approvals are received earlier than indicated from other parties.

Enclosed is a copy of test reports of waste water samples taken by Eastern Chemical on September 24 from the lagoon and point of discharge into the lagoon. In direct comparison with the state report, they indicate 560 ppb of trichloroethylene vs. 1243 ppb at point of discharge and 72 ppb vs. 660 ppb in the lagoon. For 1,1,1 - trichloroethane they tested 1700 ppb vs. 2607 at point of discharge and 220 ppb vs. 971 in the lagoon. We are still trying to determine the source of 1,1,1 - trichloroethane which does not exist in any of our process fluids according to our suppliers.

Sincerely yours,

RFL INDUSTRIES, /INC.

Richard W. Seabury III

Vice President

RWSIII:wl

Enclosures (2)



REPORT OF TEST

October 1, 1980

NUMBER 63875

CLIENT:

Eastern Chemical P.O. Box 354, Park Station Paterson, NJ 07513

Attention: Mr. Walter Witt

REL INDUSTRIES, INC. BOONTON, NEW JERSEY 07005

SUBJECT:

Two (2) water samples supplied by the client and identified as:

1.) Lagoon and 2.) Point of Discharge.

AUTHORIZATION:

In person September 25, 1980.

PURPOSE:

To determine volatile organics present.

PROCEDURE:

The standard method of purge and trap by gas chromatography was used to determine volatile organics including trihalomethanes, and other volatile organics and several proirity pollutants.

SIGNED FOR THE COMPANY

William S. Gilman

Page 1 of

New York • Chicago • Los Angeles • Tulsa • Memphis • Philadelphia • Richland

ERS ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM

RFL INDUSTRIES, INC. BOONTON, NEW JERSEY 07005

RESULTS:

Purge and Trap Volatiles Concentration ppb by Weight)

	Sample Identification		Lago	oon: <u>:</u>	P	oint of.	Qischar Dischar	ge
		ntion Time	A	В	->., —	Λ	В	_
	Vinyl Chloride	· · ·					•	
	Chloroethane	-		_				
	Methylene Chloride	3.87	3.86	6		3.87	26	
	Unidentified		4.27	26		4.28	20	
	Unidentified					5.11	22	
: •	Trichlorofluoromethane	5.27				1.	•	
•	1,1-Dichloroethylene	5. 79	• : •					
	1,1-Dichloroethane	7. 01				٠,		
	·Unidentified					7.44	15	٠
	Trans-1,2-Dichloroethylene	7.75	• • • • • • • • • • • • • • • • • • • •					
•	Chloroform	8.39		• •				
	Unidentified	•		•	•	8.83	47	
	1,2-Dichloroethane	9.32	9.29	7	:	9.30	. 26	
: "	1,1,1-Trichloroethane	11.02	11.04	220	.*	11.10	1700	
	Carbon Tetrachloride	11.61						
	Bromodichloromethane	12.39		•		1		
	1,2-Dichloropropane	14.55				:		
	Trans-1,3-Dichloropropene	15.09					. '	,
٠.	Trichloroethylene	16.21	16,23	7Ż	* 4	16.24	560	
	Benzene	17.07		• –	. :			٠.
	Dibromochloromethane (1)	17.29						:
1.1	Cis-1,3-Dichloropropene (1)	2, 12,						٠.
٠	1,1,2-Trichloroèthane (1)						¥ .	
ं	2-Chloroethylvinyl Ether	19.41				The state of the		
Ť.	Unidentified	17.11	20.68	12	•	20.69	170	
ż	Bromoform	21.81	20.00					
, :	Unidentified	21.01		•		23.10	37	
	1,1,2,2-Tetrachloroethene (2	27.09	:			27.12	55	
	1,1,2,2-Tetrachloroethene (2				· ·	2,		
		29.59		•		29.63	19	
·	• Toluene			:		27.07		
	Chlorobenzene	32.72	25.50	50		35.56	200	
,	• Unidentified	20.20	35.58	טכ				٠.
ŀ	- Ethylbenzene	39.28			•	39.35	11	•

(A) Retention time (minutes) of peaks eluted.(B) Concentration based on response of priority pollutant closest in retention time.

(1) Compounds elute together

(2) Compounds elute together

RECEIVED



DEC 29 | 52 PH '80

RFL Industries, Inc.
Boqqipni New Jersey 07005 • Tel: (201) 334-3100 • TWX: 710-987-8352 • Cable: RADAIRCO, N. J.

December 22, 1990

Mr. Greg Cunningham State of New Jersey Department of Environmental Protection Division of Water Resources P.O. Box CN 029 Trenton, New Jersey 08625

Dear Mr. Cunningham:

1.5

In response to your telephone conversation with RFL's Mr. Jack Slater on December 22, 1980, please be advised of the following:

- 1. Enclosed is a copy of the analysis done by U.S. Testing dated November 5, 1980 on samples of RFL drinking water and from the lagoon (#63971).
- 2. Please note that we can see improvement over prior test data which is an indication that steps taken are effective in improving the lagoon.
- 3. Since we are shutting down the Printed Circuit Board Department on December 23, 1980 and moving same out of the Township, with your concurrence RFL is not testing the lagoon in December of 1980.
- 4. After flushing and resumed operations in January we will take point of discharge tests on the waste water from the metal finishing operations remaining in Boonton Township. This will be sent to you after analysis is completed.
- 5. All equipment to introduce an aeration jet into the discharge has arrived on site and must be installed, weather permitting, promptly.
- 6. During November, the AM Environmental Service, Inc. using special waste manifests removed 64 drums (55 gallon) of sludge to an approved site in Alabama. This cleaned up all wastes that RFL had been collecting in. barrels for several years.

We trust that you will accept this progress report.

Best Wishes for the New Year.

Very truly yours,

RFL INDUSTRIES, INC.

Richard W. Seabury, III

Vice President

CLIENT: Eastern Chemical Co.

Number -63971

RESULTS:

		Drinking Well	Sludge -	l agoon	
	Retention Time	A * B *	A A		. 6
Sample Identification	Retention time	(in ppb)	(in p		709
mily the regulation of the company of the second		The ppop			T.
Priority pollutants purge and	trap voiames				3
	67				9.93
Chloromethane	1.57		1.75	24	
Unidentified	2.28				
Vinyl Chloride	2.70				
Chloroethane	2.70		· 2.86	69	*
Unidentified	3.68		3.70	550	
Methylene Chloride	7.00	A	4.13	-32	
Unidentified	and the second s	alle se produce de la companya de la companya de la companya de la companya de la companya de la companya de l La companya de la co	4.37		
Unidentified			4.87	47	
Unidentified	5.13				3//
Trichlorofluoromethane	5.66			4 at a fine	
1,1-Dichloroethylene	6.85		6.88	48	
1,1-Dichloroethane	7.65		The same of the same of		
trans-1,2-Dichloroethylene	8.23				
Chloroform	9.18		9.21	18	
1,2-Dichloroethane	10.85		10.91	510	
1,1,1-Trichloroethane	11.45				
Carbon Tetrachloride	12.21				
Bromodichloromethane	4.4		13.16	52	
Unidentified	14.43				
1,2-Dichloropropane	14.92				-
trans-1,3-Dichloropropene	16.09		16.14	230	
Trichloroethylene	17.08			7.00	
Benzene (1)					
Dibromochloromethane (1)					
cis-1,3-Dichloropropene (1)					
1,1,2-Trichloroethane (1)	19.28				
2-Chloroethylvinyl Ether			21.23	8	13.57
Unidentifled	21.58				1
Bromoform -1,1,2,2-Tetrachloroethene (2	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	re and desired the second second		A STATE OF THE STA	
1,1,2,2-Tetrachioroethene (2					22.
	29.58				
Toluene	32.66		DE THE		200
Chlorobenzene		1121 37 77 77 537	35.45	24.34	
Unidentified	39.23		A CONTRACTOR		7
Ehtylbenzene					1

Entylbenzene

* Values detected were below our detection limit of 5 ppb.



Sample source: RFL Industries, Inc., Boonton, New Jersey

Sample date: May 1, 1981

Taken by: ICM, Randolph, New Jersey

Tested by: ICM, Randolph, New Jersey

		•	
		Results PPB	
•	Monitor Well (1)	Monitor Well (2)	Monitor Well (3)
O-xylene	ND	ND	ND
M-xylene	ND	ND .	ND
Tetrachloroethylene	ND	ND	N D
Ethyl benzene	ND	ND	N D
Toluene	ND	ND	N D
1,1,2,2 tetrachloroethane	ИD	ND	ND
Benzene	ND	N D	ND
Trichloroethylene	ND	5.6	49
Carbon tetrachloride	ND	ND	ND
1,1,1 trichloroethane	ND	3.4	21.3
1,2 dichloroethane	ND	N D	ND
Chloroform	ир	ND	ND .
1,2 dichloroethylene	ND	3.7	3.3
1,1 dichloroethane	ND	2.7	27.2
1,1 dichloroethylene	ND	ND	ND
Trichlorofluoromethane	ИD	ND	ND
Methylene chloride	ND	ND	9.8

ATTACHMENT D

BACKGROUND WATER QUALITY DATA

The following is a summary of the water quality data taken on site during the past three years (1982, 1983, 1984). Eight sampling locations have been monitored regularly.

- 1 upstream surface water
- 2 monitor well #1
- 3 monitor well #2
- 4 monitor well #3
- 5 monitor well #4
- 6 downstream, about 300 feet from lagoon
- 7 downstream, at Valley Road, about 2000 feet
- 8 lagooned water in evaporation pond

All of the above locations can be found on the General Site Plan in Attachment F. All of the analyses summarized herein have been performed by:

Industrial Corrosion Management Corporation 1152 Route 10 Randolph, New Jersey 07869

State Lab Certification Number 14116
Original testing results can be supplied upon request.

STREAM SURFACE WATER. VOLATILE ORGANIC ANDLYSIS BY PURGE F TRAP GAS CHROMA RAPHY (GC) July 14, 1982 Aug. 26, 1982 DEC. 15, 1982 MAY 13, 1983 Aug. 24, 1983 DEC 15, 1983 UNITS ANALYSIS CHLOROMETHANE BRONDNETHANE OKHLOPODIFI UOPOHETHINE VINYL CHLORIDE CHLOROETHANE HETHYLENE CHLOPIDE ACETONE TRICKLOROFLUOPO METHANE 11-DICKORDETHYLENE 1.1- DICHLORO ETHANE t-12 - DICHLUNGETHYLENE CHLOROFORH FREON 113 12-DKHOLOETHANE - BUTYL HETNYL ETHER 441-TERMORDETHANE CARBON TETERCHLORIDE BEOMODICALORO 118THANE 1. 2-DKHOROPPOPANG C-13-DICHLOPOPROPENE t-1,3-DICHLOROPEUPENE TE (TEKHLOFOUTHYLENE) 112-TEKHLOROETHANE DIBPOHOCHLOROHETHANE BANZENE DIISOPROPYL ETHER Z-CHLOROETHYLVINYL ETHER HEXANE BROHOFORM 11.3, 2-TETRACHLOROETNANE RECTERENHOROETHYLENED HEPTANE TOLUNE CHLORO BENZENE ETHYLBENZONE UNENOUN PE DES) 医静脉 经

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29	A.34.		一位,这种企业,							Ш		_			1:1		_ _	_ _ .		_	_ _ .		31
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VOLATILE ORGANK ANALYSIS BY PURGES TRAP GAS CHROMATOGRAPHY (GC)

PPB.	0,101,1215	July 14,1982	Aug 26, 1982 E	DEC. 15 1992	MAY 1993	Aug 24 1993	Dec 15 19A					
UNITS UNLESS NOTED	ANALYSIS	July 14,1102	1149 26,1165	720.10,1102	71AY 12, 1100	2134.23,2700	=======================================					
	CHLOROMETHANE											
	BRONOMETHANE					 						
- 1 - N - N - N - N - N - N - N - N - N	DKHLOPODIFI UDPOHETHINE	1-1-1-1-		_ _ _	- - - - - -		 - - - - - -					
	VINUL CHLORIDE		<u> - - - -</u> -		- - - - -							
· · ·	CHLOROETHANE				101.3	0.3						
	HETHYLENE CHLORIDE	45.0		19.6	38.1							
	ALETONE				- - - - -							
	TREFLOROFLUDEO HETNANE											
	11-DICKORDETHYLENE		- - - - -	1110	7:2	2.4						
	1,1-DICHLORO ETNANE	40.9	11.3	10.3	270.3.	381.3	3.4					
	t-12-DICHUROETHYLENE	1.5	11.5	2.8	149.3		3.8					
Selection of the select	CHLOROFARM		<u> - - - </u> -	 	$\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -$							
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FREON 113		K/50.0	556.0	80.1	223.0	- 67					
: \ '	1,2-DKHOLOETHANE				 	╢╼┠╌┠╼┠╼╏╼						
	E-BUTYL METHYL ETHER						6.9					
	111-TRICALDROETHANE	401.6	62.6	44.6	427.6	464,0						
-	CARBON TETRACHLORIDE			 	$\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -$	╟╼┼╌┤╌┼╌						
	BEOMODICALCROHETHANE		$\ - \ - \ - \ - \ $	 	 - - - - - -							
3 1	1,2-DK-HOROPPOPANG					╟╼┤╾┤╾┤╾┤╌╴┆						
1 1 1 1 1	C-13-DICHOPOPROPENE											
* V S	t-1,3-PICHLOROPEUPENE		7.0	5.3	66.9	37. 9	32.2					
	TRE (TERHLOROETHYLENE)	2.2										
	112-TEKHLORO ETHANE											
	DIBEOHOCHLOROHETHANE											
	BANZENE			 								
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	2-CHLOROSTHYLVINYL ETHER			╫								
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	1,1,2,2-TETRACHLOROETNANE			- - - - - -	4. 1	2.0	1.6					
	же(тепек и окостициеми)	0.7				 - - - - [*] '						
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 ' :	CHLORO BENZENE			 								
	CHYLECNZENE (UNENOWN AT DES)		< yes>	yes	Yes_	yes	I yes					
	UNENDON FERES											
	TOTAL PRE	507.7	C233.4	639.6	1068.4	777.6	115.4					
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- NITOR WELL MW-2

PLEGE & TRAP GAS CHROMATOGRAPHY (GC) VOIATILE ORGANK ANALYSIS July 17, 1984 Oct. 11, 1984 Oct 29 ABY ANALYSIS APR. 17, 484 UNLESS CHLOROMETHANE BRONDHETHANE DKHLDEODIFI UDPONETHINE VINYL CHLORIDE CHLOROETHANE 15.0 HETHYLENE CHLORIDE ACETONE TRICKLOROFLUDEO HETNANE 1-DICKOROETHYLENS 3 4 31.5 22. 67 . 0 1,1- DICHLORO ETHANE 21.0 0 t-12 - DICHLOROETHYLENE CHLAROFARM 3 FREON 113 12-DKHOLOETHANE E-BUTYL HETHYL ETHER 1372.0 II, I-TRICHLORDETHA CARBON TETRACHLORIDE BEOHODICALORO 118TH A.N.E. 1.2-DKHOROPPOPANG C-13-AKHLOROPROPENE 21 t-1,3-DICKLOROPROPENE 02. 163.0 22 TCE (TEKHLOROETHYLENE) 0 0 91. 23 112-TEKHLORO ETHANE 24 OLBROMOCHLOROMETHAVE 25 BANZENE 26 DISOPROPYL ETHER 27 2-CHLOROSTHYLVINYL ETHER 28 HEXAKE 29 BROHOFORH 30 1, 2, 2-TETRACHLOPOETHANE 3 31 RESTERMORDETHYLENE) . 0 32 HEPTANE TOLUNE 33 34 CHLORO BENZENE ETHYLEENZENE 35 36 UNENOUN PE ARS TOTAL PPB 49 53 2 380 38

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N N N N N N N N N N N N N N N N N N N	ANALYSIS	1	2 ==== Aug 26, 1982	3 DOI 15, 1982	4 HAY 12, 1983		Dec 15, 1983
2 PPM 3 PPM 4 PPM 5 PPM 6 PPM 7 PPM 8 PPM 9 UNITS	HEXAVALENT CHRONNH CHRONIUM LEAD NICKEL FLUORIDE CHLORIDE TOT. DISSOLVED SOLIDS NITRATE PH OIL & GREASE		0.0289 0.064 0.032 0.145 26.0 149.0 0.224	20.05 0.008 0.002 0.19 31.6 189.0 5.1 6.69	0.004	20.00 0.00 0.00 20.00 20.00 20.00 20.726	0.007
11							
19 3 3		APR. 14, H84		<u> </u>	Oct 11, 1984		
13 PPM 14 PPM	HETAUM GUT CHEONIUM CHEOMIUM LEAD NICKEL FLUORIOS	0.03 0.03 0.04 0.08	/ 26 · 0 0 · 0 08 / 26 · 0 0 · 0 21 0 · 0 80	Po e . o	<0.004 0,078		
1 PPM 18 18 18 18 18 18 18 18 18 18 18 18 18	OFLORIDE TOTI DISSOLUND SOLIDS NITRATE PH OIL & GREASE	12.9 133.0 1.1 6.45	9.13		204,0		
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VOLATILE ORGANK ANALYSIS BY PURGE F TRAP GAS CHROMATOGRAPHY (GC)

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7				ACETONE							<u> </u>				_	_			11	<u> </u>			_ _		_		_ .	_ _	. _				$\left \cdot \right \cdot \left \cdot \right $				7
8				TREVLOROFLUDEO HETHANE			1.														_					_		_ _				. -	.				8
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- NOTOR WELL MW-3 -

VOLATILE ORGANK ANDLYSIS BY RIEGE TRAP GAS CHROMATOGRAPHY (GC) 2 3 3 4 5 4 Apr. 17,1984 July 17,1984 Oct. 11, 1984 Oct. 29,1984 ANALYSIS UNLESS CHLOROMETHANE BRONDHETHANE DKHLDPODIFI UDPOHETHINE VINYL CHLORIDE CHLOPOETHANE HETHYLENE CHLORIDE ACETONE. TRK KLOROFLUDEO HETHANE 1.1-DKKOROETHYLENE 1,1-DICHLORO ETHANE 10 t-12 - DICHLOROETHYIENE CHLOROFORM FREON 113 12-DXMOROETHANE E-BUTYL HETTAL ETHER 15 111-TRICHORDETHANE 16 17 CARBON TETERCHLOPIDE -37 BEOMODICALOR OFFETHANE 1,2-DKHOROPPOPANG ! 19 20 C-13-DICHLOPOPROPENE 21 t-1,3-DICHLOROPEUPENE 9 0 22 TEE (TEKHLOEOETHYLENE) ٠., 112-TEKHLORO ETHANE 23 . . OLBROMOCHLOROHETHANE 24 BANZENE 25 26 DILSOPROPYL ETHER 27 2-CHLOROSTHYLVINYL ETHER 28 HEYAKE 29 BROHOFORH 11. 2. 2-TETRACHLOROETHANE 30 31 RETETER HI OCOPTHYLENED HOPTANE 32 33 TOLUNE CHLOROBENZENE ETHYLBENZENE 35 UNENOUN PEARS 36 37 TOTAL PPB 3 0 97 38 39

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X X	UNITE	ANALYSIS		Aug 26, 1982	DEC 15 1992	MAY 12 AR3	Auc 24. 1982	DEC 15, 1983
5								
1	PPM.	HEXAVALONT CHrONNA		⟨0.01	K0,05	20.05	40.05	40.05
2		CHEONIUM		0.0093	0.002	0,007	0,007	
3		Lead		0.037		0.004	0.050	0.006
4	PPY	NICKEL		0.0026	0.010		0.007	
5		FLUORIDE		0.307		 		0.172
.		CHLORISE	 	6.0	21,7	4.96	7.38	7.6
7		TOT. DISSOLVED Solids		41.0	227.0	57.1	29,2	1
8	PPM	NITRATE		0.821	0.46	6.08	0.738	11 1 1 1 1 1 1 1
9		OIL & GREASE		51.86 0.1	3.38	KO. 1	5,53	6.39
10	177	ULA GREADE						
12							- - - - -	
13						<u> </u>		
14		有条数数数数数						
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16		AN COLUMN TO SERVICE STREET						
17		36,000						
18	UNITS:	ANALYSIS	APR. 17, 1984	July 17, 1984	Oct 11,1984	oct 29, 984		
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20	מפס	HOYAUN GIST CHOONING	20.05	₹ 0,05				
21		HEYAUNGNT CHRUNIUM CHRONIUM	0.003	0.002	0.018		┞╼ ╼ ╾ ╌┠	
		LEAD	0.005	0,002	0.028	0,004		
24	PPH	NICKEL	0.009	Z0,002	K0.004			
3111	1 7 11	FLUORIOS-	0.350	0,180	0.440			
7 : H		OHORIDE	3,98	3.04	4.01			
27	ppy	TOT, DISSOLUAD SULIDS	5015	173.0	79.6			
28	PPH	NITRATE	₹0.7	<0.7	< 0,7			
14 14	UNITS	PH	6,17	5,64	5,09			<u> </u>
30	PPA	OIL & GREASE	3,94	0.793	Ka. 1		- 	
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VOLATILE ORGANK ANDLYSIS BY PURGED TRAP GAS CHROMATOGRAPHY (GC) AUG 24,1983 DEC 15,1983 UNITS ANALYSIS CHLOROMETHANE BRONDHETHANE DKHLDRODIFL UDROHETHINE VINYL CHLORIDE CHLOGOETHANE HETHYLENE CHLORIDE ACETONE TRKHLDROFLUDEO HETHANE 1,1-DICKOROETHYLENS 1- DICHLORO ETHANE t-12 - DICHOROETHYLENE CHLOROFORM FREON 113 12-DXMORDETHANE E-BUTYL HETAYL ETHER 111-TRICHLORDETHANE CARBON TETERCHLORIDE BEOHODICHLOROHETHANE 1'Z-DKWOROPPOPANG C-13-DICHLOPOPROPENE t-1,3-DICHLOROPEOPENE TRE (TERHLOBOETHYLENE) 112-TEKNIORO ETHANE DIBROMOCHLOROMETHANE BENZENE DILSOPROPYL ETHER 2-CHLOROSTHYL YINYL ETHER HEXANE BROHOFORH 11. ? , Z-TETRA CHLOROETH ANE RESTRIKENDEDETHYLENG) HOPTANE TOLUNE CHLORO BENZENE ETHYLBENZENE UNKNOWN PEAKS TOTAL PPB S8N

ORGANK ANDLYSIS BY PURGE & TRAP GAS CHROMATOGRAPHY (GC)

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16			141-TRICHLORDETHANE		\prod		_		_		1:1	_	H	\bot		-	-	-		0	-	-	- -	- -	. .					-	
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27	رمرح	7	TOT, DISSOL UND 504/05		103	0		23	3,0		11	1.	0		`				<u> </u>					7
28	برخرم	,	NITRATE		40	7	<u> </u>		0/7		4	a.	7		107					<u> </u>				 :
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BY PURGE & TRAP GAS CHROWATOGRAPHY (GC) VOIATILE ORGANK ANALYSIS MAY 17, 1783 Aug 74, 1983 DEC 15, 1783. July 14, 1982 Aug 26, 1982 DEC 15,1982 ANALYSIS UHITS UNLESS CHLOROMETHANE BRONDHETHANE DKHLOFODIFI UOPONETHINE VINUL CHLORIDE CHLOCOETHANE 0.44 HETHYLENE CHLORIDE ACETONE TRICKLOROFLUDEO HETHANE a. 7 82 1.1-DICKOROETHYLENS 2. 5 3. 1,1- DICHLORO ETHANE 8. 4 t-12-DICHUROETHYLENE CHLOROFORM FREON 113 12-DXHORDETHANE -BUTYL HETAYL ETHER 0 60.4 19.5 4213 0.5 27.11 111-TRICHLORDETHAN CARBON TETERCHLORIDE BEOMODICALOROMETHANE 1.2-PICHOPOPPOPANG C-13-DICHLOPOPROPENE t-1,3-PICHLOROPROPENE 30. TCE (TERHLOROETHYLENE) 112-TEKNLORO ETHANE OLBROHOCHLOROHETHANE BANZENE DILSOPROPYL ETHER Z-CHLOROETHYLVINYI ETHER HEXANE BROHOFORH 1.1.2. 2 TETRACHLOROETHANE 0.9 3 d. 6 RESTERNINGEDETHYLENED) HEPTANE TOLUNE CHLORO GENZENE ETHYLBENZONE yes yε VES. UNENDUM PEAKS TOTAL PAB 09 96. 80.3

DOWNSTREAM ≈300' -

VOLATILE ORGANK ANDLYSIS BY RUPGESTRAP GAS CHROMATOGRAPHY (GC) ARR. 17, 1984 July 17, 1984 Oct 11, 1984 Oct 29,1984 ANALYSIS UNITS CHLOROMETHANE BRONDHETHANE DKHLDRODIFI UDROKETHINE VINUL CHLORIDE CHLOROETHANE HETHYLENE CHLORIDE ACETONE TRICKLOROFLUDEO HETHANE 0 19 1.1-DICKOROETHYLENG 8.0 1,1- DICHLORO ETHANE t-12 - DICHLUROETHYLENE CHLOROFORM FREON 113 12-DKHOLOETHANE E-BUTYL HETNYL ETHER 59.0 33.0 111-TRICHLORDETHAL CARBON TETRACHLORIDE BEOMODICALOROHETHANE 19 1.2-PKHOROPPOPANG C-13-DICHLOROPEOPENE 20 21 t-1,3-PICHLOROPEOPENE 22 TRE (TERHLOROETHYLENE) 23 112-TRKNLORO ETHANE 24 DIBROHOCHLOROHETHAVE BENZENE 25 26 DILSOPROPYL ETHER 27 2-CHLOROETHYLVINYL ETHER 28 HEYAKE 29 BROHOFORH 30 1.1.2.2 TETRA CHLOPOETNANE 31 RETERNIOROFTHYLENED) 32 HOPTANE 33 TOLUNE : 34 CHLORO BENZENE ETHYLEENZENE 35 36 UNENOUN PE AKS 37 .38

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	2000	75	ANALYSIS		Aug 26, 1982	DEC 15, A82	MAY 12, A83	Aug. 24, 1983	DEC 15, A83
1	1 <i>PP</i> ,		HEXAVALONT CHRONNII CHRONIUM		0.0056	40.05	20.05		12 0.05
	<i>رم</i> م رمم	ĸ	LEAD NICKEL		0.0067		K0.004	0,003	20,002
:	5 PP	4	FLUORIDE CHLORIDE		0.345	24.2		11 - 1 - 1 - 1 - 1 - 1 - 1	13.8
	1 PP1		TOT. DISSOLVED SOLIDS NITRATE		0.075	190.0	150.0	143.0 K0.700	115.0
11	יאע ו מקק מ		OIL & GREASE		6.97 <0.1	0,23	7.10 2.1	6,77	6.34 20.1
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20	PPK		HEYAUN GUT CHEONIUM	∠ 0.∞	. 4 0. 05	20,05			
23	PPH		CHEOMIUM LEAD	0.003	10,004		0.004	- - - - - - - - - - - - - -	2
25	ام <i>م</i> م		NICKEL FLUORIDE OHORIDE	0.210	0,700	2.80			2
27 29	MAD		TOTI DISSOLUND SULLOS NITRATE	65.4	206.0	15.8			2
	UNIT	5	PH OIL & GREASET	6.3	6.50	6,56			2
37									7
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37									31 31 31
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VOLATILE ORGANK ANALYSIS BY PURGES TRAP GAS CHROMATOGRAPHY (GC)

HAY 12, 1983 Aug 24, 1983 DEC 15, 1983 UNITS ANALYSIS CHLOROMETHANE BRONDHETHANE DKHLDRODIFI UDPONETHINE VINYL CHLORIDE CHLOROETHANE HETHYLENE CHLORIDE ACETONE TRENLOCOFLUDEO METHANE 11-DICKOROETHYLENS 1,1-DICHLORO ETHANE t-12-DICKLURGETHYLENE CHLOROFORM FREON 113 12-DKHOROETHANE E-BUTYL HETAYL ETHER 111-TRICHORDETHANE CARBON TETRACHLORIDE BEOHODKHLOROHETHANE 12-DKHOROPPOPANG C-13-DICHCOPOPROPENE t-1,3-DICHLOROPEUPENE TEE (TEKHLOROETHYLESSE) 112-TRKHLORO ETHANE DIBROHICHLOROHETHANE BANZENE DIISOPROPYL ETHER 2-CHLOCOPTHYLVINYL ETHER HEXANE BROHOFORH 1,1,2,2-TETRACHLOROETHANE RETERRILORDETHYLENE) HEPTANE TOLUNE . CHLOPO BENZENE ETHULBENZENE UNENOUN PEAKS TOTAL PPB 34

USTREAM Q YALLEY ROAD VOLATILE ORGANK ANALYSIS BY RURGE & TRAP GAS CHROMATOGRAPHY (GC)

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VOLATILE ORGANK ANALYSIS BY RIPGE & TRAP GAS CHROMATOGRAPHY (4°)

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VOLATILE ORGANIC ANALYSIS BY PURGE & TRAP GAS CHROMATOGRAPHY (GC)

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RCRA Compliance Monitoring Evaluation

DOWTY RFL industries Inc. Powerville Road Boonton, New Jersey

VJ#7D002156677

July 2 and September 17, 1985

Participating Personnel:

Environmental Protection Agency

Nick Magriples, Evironmental Engineer Louis DiGuardia, Geologist Mike Ferriola, Environmental Scientist Stacey Gogos, Environmental Engineer Steve Hale, Environmental Specialist Bruce Kovak, Environmental Scientist

DOWTY RFL Industries, Inc.

Jack Slater, Facilities Manager

Nick Magriples, Environmental Engineer

Source continuental Eng

Richard D. Spear, Chief Surveillance & Monitoring Branch

Report Prepared by:

Approved for the Director by:

ATTACHMENT S9A

Purpose of Survey

A RCRA Compliance Monitoring Evaluation was conducted at DOWTY RFL Industries, Boonton, New Jersey on July 2 and September 17, 1985. The scope of the survey included the collection of groundwater monitoring well samples, an evaluation of the facility's compliance with Subpart F requirements and all other applicable Subparts in 40 CFR Part 264.

Facility Description

DOWTY RFL Industries is engaged in the assembly of electronic components for in-line communication devices, such as detection relay devices for utilities. The Boonton facility has gone through a number of operation changes in recent years. Previously, the manufacture of printed circuit boards and the metal finishing of aluminum and steel parts prior to painting, were conducted here. The plating operations, which ended in 1980, were moved to the Newton facility, and by July 1983, the metal finishing operation was converted to a closed loop system. According to the facility manager, as of September 9, 1985 the metal finishing operation was totally eliminated due to the excessive costs of drumming the wastes.

In the early 1970's and up to 1980, when the facility manufactured printed circuit boards, copper and tin/lead were used to plate pailadium. The metal to be plated would be cleaned and a layer of 1 mm thick copper deposited on its surface, electrolytically. This was followed by deposition of a layer of .5 mm thick tin/lead, and a stripping and etching step prior to assembly. From 1972 to 1980, 1000 GPD of wastewater from all operations were discharged to an on-site infiltration/percolation lagoon.

The metal finishing operations were conducted on aluminum and raw steel sheets, rods and wire. The aluminum finishing operation consisted of, in sequence; a caustic etch, a dip and spray rinse, a desmutting operation to remove the oxide layer, a rinse, a chromic acid conversion to put chromate on the surface of the metal, and a final rinse and drying prior to being painted in a spray booth. The steel finishing operation consisted of, an alkaline soap cleaning, several dip and spray water rinses, an iron phosphate rinse, and a final rinse and drying prior to being painted as in the aluminum finishing operation. Up till 1983, 100 GPD of wastewater from these operations were discharged to the lagoon. The facility then put in a wastewater treatment/recycle system, which readjusts the pH with either sulfuric acid or caustic soda, thus eliminating the discharge to the lagoon. Every three weeks this closed system had to be purged to remove the accumulated wastes.

Soldering operations are conducted on-site; both hand and flow soldering. The latter consists of a preheated flux being passed over the material in a "wave", followed by a washing step.

Waste Generation

At the time of this inspection, the activities that resulted in the generation of hazardous waste were as follows;

- a) Cleaning and removal of the tank bottoms in the closed loop metal finishing operations described previously. Also filter bags containing chromium waste from the process. This usually amounts to one drum per week.
- b) Spent flux from the soldering operations. Normally not more than one drum per 90 day period is generated.
- c) Ignitron tubes containing mercury. These are gas-discharging rectifier tubes which are used to control the starting of a uni-directional current flow. Normally not more than three or four of these are disposed of every couple of years.

At the time of this inspection the hazardous waste management area contained;

6 drums Hazardous Waste Liquid (F006)

1 drum Waste Solid, Chrome filter bags (D007)

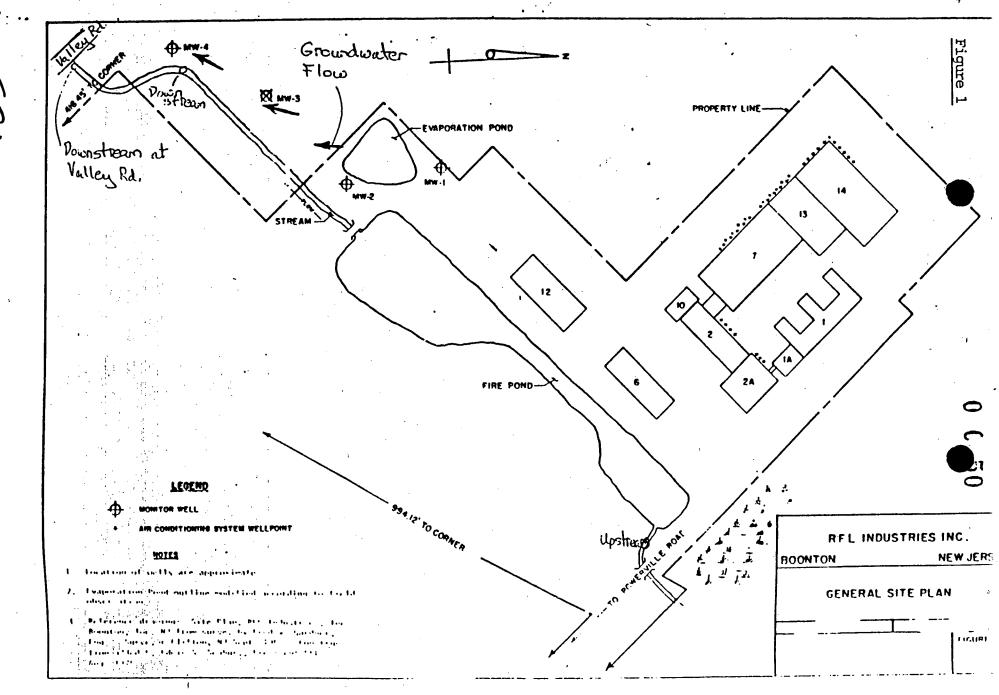
1 drum Waste Flammable, Flux

All had accumulation dates within the month.

When the metal finishing operation is terminated in September, this will eliminate the majority of the wastes being generated.

The facility also has a lagoon on-site (5000 sq. ft.) which was constructed in 1972 and was then rebuilt in August 1975 (See Figure 1). As mentioned previously, this received 3000 GPD from all plating and finishing operations from 1972 till 1980, and 100 GPD from the aluminum and steel operations from July 1980 till July 1983. The waste stream contained several heavy metals (Cd, Cr, Pb), cyanides and several volatile organic compounds from degreasing operations. Treatment of the material in the lagoon consisted of lime addition to adjust the pH, which in turn precipitated the heavy metals. According to company officials there have been no discharges to the lagoon as of July 1983. At the time of this inspection there was a very small amount of rainwater at the bottom of the lagoon, according to the facility manager.

A closure plan for the lagoon was submitted in December 1983 and received approval in January 1985. Currently the facility is taking bids for the removal of any contaminated soil from the lagoon, and final filling and covering.



Site Hydrogeology

Hydrogeological studies have been conducted at this site by Ground/Water Technology, Inc. of Denville, New Jersey. The hydrogeological setting is characterized by deposits of sand and gravel (Wisconsin stratified drift) that have been deposited in what used to be a topographic low by glacial meltwaters. Boring logs show there is an uneven bedrock surface at a depth of 25 to 45 feet. They also show that the upper 30 feet of soil in the vicinty of the lagoon is made up of a 10 to 20 foot layer of fine to medium sand or silty fine to medium sand, overlying a 10 to 20 foot thick layer of medium to coarse sand.

Water level information was collected by Ground/Water Technology in December 1981 from three on-site wells and the nearby surface water elevations in order to determine groundwater flow conditions in the uppermost aquifer. At that time they determined the flow to be in a south easterly direction; towards the adjacent stream. More recent water level information tends to show that the groundwater flows in a south-southwesterly direction (see Figure 1).

The rate of flow of the groundwater was estimated from the hydraulic gradient and an assumed permeability range of 10^{-4} to 10^{-2} cm/sec. Based on this, the flow rate was estimated to be between 0.005 to 0.5 ft/day.

Sampling Procedure for Groundwater Monitoring Wells

Samples were collected from RCRA groundwater monitoring wells #1, #2, #3 and #4. Prior to sampling, measurements of the well diameter, well depth, and water level were made to determine the volume of water present in the column (see the Well Monitoring Data Sheets). Each of the four monitoring wells was evacuated by removing 3 volumes of standing water, as called for in EPA well sampling protocol, using a suction lift pump. The hose itself was kept away from the bottom of the well to minimize the amount of sediment disrupted/evacuated. Samples were collected using teflon bailers. Each monitoring well had its own bailer, bailer chord, and pump intake hose dedicated to it.

Samples were collected from each of the four wells for Total Oganic Carbon, Total Organic Halides, pH, Specific Conductivity, Cyanide, Hexavalent Chromium, Metals Scan, Non-Volatile Organics, and Purgeable Organics.

Analytical Results

The data obtained from samples collected at RFL Industries is presented in Table 1. Tables 2 thru 5 show a comparison of EPA's analytical results with RFL Industries' data. Due to the facility being in an assessment program, a statistical analysis is not required, although according to a letter from NJDEP, monitoring of the indicator parmeters is required. Concerning metals analysis comparison, EPA samples were taken as total metals, whereas RFL Industries' samples were filtered prior to analysis; thus the significant difference. All measurements of total metals were below drinking water standards, which are based on total metals. Arsenic and lead levels in Well #2 were close to the .05 ppm mandatory limit. According to NJDEP personnel, the State requires only dissolved metals analysis, since total metals measures the amount in solution as well as the amount tied up in the sediment, which they believe is inappropriate. Although total metals shows the overall impact on the groundwater by the facility. Monitoring wells #2 and #4 both showed high sediment content in the groundwater after proper well evacuation, whereas well #'s 1 and 3 were relatively clear. Wells #2 and #4 also showed an overall higher level of metals as compared to #'s 1 and 3, which showed no significant metals except for some zinc. This may be an indication that the wells were improperly developed when they were installed or that wells #2 and #4 are monitoring a different geological setting.

The organics analysis showed no indication of any significant increase over up-gradient conditions. The value 403 ug/l of methylene chloride in Well #4 can not be realistically used because of the corresponding TOX value of 24 ug/l in the same well; although EPA lab personnel state that the TOX method is more difficult to duplicate.

Findings and Conclusions

Based upon a sampling inspection and review of the facility's documents and records, RFL Industries is not in complance with the following RCRA requirements:

- 1) N.J. Reg.# 7:26-9.4(b)2 and 7:14A-6.4(a) require that the facility maintain on-site a written waste analysis plan and a groundwater sampling and analysis plan. Neither were available during the inspection.
- 2) N.J. Reg.# 7:26-9.4(g)5i thru iv require that there be written documentation of the job title for each position at the facility related to hazardous waste management and the name of the employee filling each job, a written job description of each position related to hazardous waste management, a written description of the type and amount of training to be received and the amount of training actually received. The only person to receive any training was the facilities manager, but there was no documentation of it. All other persons who handle hazardous waste are trained by him. There are no job titles or descriptions as related to hazardous waste management.
- 3) The facility is currently under a Groundwater Quality Assessment Plan due to a rapid increase in the concentration of organic compounds in monitoring wells #2 and #3 in May of 1981. Not until August of 1983, after all discharges to the lagoon had ceased was a fourth well installed, approximately 350 feet southwest of the lagoon (175 feet southwest of well #3). This was chosen over the recommendation from both Ground/Water Technology (2/82) and Ertec Atlantic, Inc. (8/82) for a fourth well west of the lagoon to determine the extent of thhe plume migration.

N.J. Reg.# 7:14A-6.3 requires at least three monitoring wells installed hydraulically at the limit of the waste management area. Their number, location and depth must ensure that they immediately detect any statistically significant amounts of hazardous waste or hazardous waste constituents that migrate from the waste management area to groundwater. This was required by November 1981. The down-gradient wells at RFL Industries were inadequate since there were only two down-gradient wells till 1983, and well #3 was >100 feet away from the lagoon and could not immediately detect any contamination of the groundwater.

Note: Samples were also taken and are still currently being taken from upstream, downstream and downstream at Valley Road points (see Figure 1). The past several samplings show no indication of contamination.

4) The NJDEP requires that samples for metals be filtered prior to analysis. If a comparison to metals limits in the permit, which are based on drinking water standards, are to be made, it is recommended that replicate samples be taken. One should be filtered prior to analyzing for dissolved metals and the other one should be analyzed for total metals.

Results of Analysis on Groundwater Monitoring Well Samples Collected at RFL Industries

Parameter	#087576 Mw #1 (up-grad)	#087577 MW #2 (down-grad)	#087579 MW #3 (down-grad)	#087578 MW #4 (down-grad)	#087580 field blank
pH (SU)	6.21	6.62	5.79	6.36	-
Specific Conductance (um/cm @ 25°C)	65	224	67	57	- * ,
TOC (mg/1)	3.16	43.64	7.21	11.88	-
TOX (ug/1)	13 J	26	17	24	· -
Cyanide (mg/l)	.03	.02 K	.02 K	.02 K	-
Hexavalent Chromium (ug/1)	7 K	7 K	7. K	7 K	-
Total Metals(ug/1)			•		
Silver	2 K	2 K	2 K	2 K	- ·
Arsenic	2 K 4 J	40	2 K 3 J	2 K 5.5	-
Beryllium	4 J 6 J	46 3 K	3 J 3 K	3.3 3 K	<u>-</u>
Cadmium Chromium	10 K	3 K 20 J	10 K	20 J	_
	30 J	72	20 J	62	_
Copper Mercury	.2 K	.4 J	.4 J	.2 K	-
Lead	40 J	46	40 J	40 J	_
Nickel	20 K	110	20 K	20 K	.
Antimony	1 K	1 K	1 K	1 K	-
Selenium	1 K		1 J	1 K	-
Thallium	.4 K	.4 K	.4 K	.4 K	_
Zinc	290	160	160	420	. -
0					•
Organics(ug/1)					
Methylene Chloride	32	29	13	403 ⁻	U
Tetrachloroethylene	บ	2	U	U	υ
1,1,1 Trichloroethane	Ū	2.7	·U	U	บ
Trichloroethylene	U	13	3.2	2	U
Toluene	ט	U	u	4.5	บ

K: Actual value known to be less than the value given

d: Estimated value detected material analyzed for, but not detected

Comparison of EPA's Analytical Results with RFL Industries' Data for Monitoring Well #1 (up-gradient)

Parameter	EPA 7/2/85	RFL 1/24/85	RFL 4/12/85	RFL 7/22/85
pH (SU)	6.21	5.98	6.69	6.58
Specific Conductance (um/cm @ 25°C)	65	80	80	. 90
TOC (mg/1)	3.16	0.3 K	0.60	0.3 K
TOX (ug/1)	13 J	30	-30	20
Cyanide (mg/l)	.03	.001 K	NA	.002 K
Hexavalent Chromium (ug/1) †	7 K	50 K	10 K	10 K
Metals(ug/1) †		-	•	
Silver Arsenic Beryllium Cadmium Chromium Copper Mercury Lead Nickel Antimony Selenium Thallium Zinc	2 K 2 K 4 J 6 J 10 K 30 J .2 K 40 J 20 K 1 K 1 K .4 K 290	3 10 NA 1 K NA 3 K 0.5 K 4 K NA NA NA	NA NA NA NA NA NA NA NA NA NA NA NA	2 K 5 K NA 1 1 3 K 0.5 K 4 K NA NA NA NA
Organics(ug/1)				
Methylene Chloride Tetrachloroethylene l,l,l Trichloroethane Trichloroethylene Toluene	32 , U U U U	3 3 3 3	2 K 2 K 2 K 2 K 2 K	1 K 1 K 1 K 1 K 1 K

[†] EPA analysis indicates Total Metals, whereas RFL Industries' analysis is for Dissolved Metals.

NA Not analyzed

Comparison of EPA's Analytical Results with RFL Industries' Data for Monitoring Well #2 (down-gradient)

Parameter	EPA 7/2/85	RFL 1/24/85	RFL 4/12/85	RFL 7/22/85
рН (SU)	6.62	6.11	6.70	6.95
Specific Conductance (um/cm @ 25°C)	224	150	200	200
TOC (mg/1)	43.64	.4	1.3	1.35
TOX (ug/1)	26	10	10	10
Cyanide (mg/l)	.02 K	•001 i	K NA	.002 K
Hexavalent Chromium (ug/1) †	7 K	50 1	K 10	K 10 K
Metals(ug/1) †		-		
Silver Arsenic Beryllium Cadmium Chromium Copper Mercury Lead Nickel Antimony Selenium Thallium Zinc	2 K 40 46 3 K 20 J 72 .4 J 46 110 1 K 2 J .4 K 160	2 1 20 NA 2 1 NA 3 1 0.5 1 4 1 NA NA NA NA NA	NA NA K NA NA K NA	2 K 5 K NA 1 K 1 K 3 U.5 K 4 K NA NA NA
Organics(ug/l) Methylene Chloride Tetrachloroethylene 1,1,1 Trichloroethane Trichloroethylene Toluene	29 2 2.7 13 U	3 1 9 20 3	2 2 5 7 2	K 1 K K 1 K 1 K 1 K 1 K 1 K

[†] EPA analysis indicates Total Metals, whereas RFL Industries' analysis is for Dissolved Metals.

Comparison of EPA's Analytical Results with RFL Industries' Data for Monitoring Well #3 (down-gradient)

Parameter		EPA 7/2/85	RFL 1/24/85	RFL 4/12/85	RFL 7/22/85
pH (SU)		5.79	5.11	5.89	6.08
Specific Conductance (um/cm @ 25°C)		67	45	55	510
TOC (mg/1)	7	7.21	0.3 K	2.1	2.1
TOX (ug/1)		17	10.0 K	10 K	20
Cyanide (mg/l)		.02 K	.001 K	ŇA	.002 K
Hexavalent Chromium	(ug/1)	7 K	50 K;	10 K	10 K
Metals(ug/1) †			<u>.</u>		
Silver Arsenic Beryllium Cadmium Chromium Copper Mercury Lead Nickel Antimony Selenium Thallium Zinc Organics(ug/1)		2 K 2 K 3 J 3 K 10 K 20 J .4 J 40 J 20 K 1 K 1 J .4 K	2 K 10 K NA 2 K NA 3 K 0.5 K 4 K NA NA NA	NA NA NA NA NA NA NA NA NA NA NA NA NA N	2 K 5 K NA 1 K 2 3 K 0.5 K 4 K NA NA NA
					·
Methylene Chloride Tetrachloroethylene 1,1,1 Trichloroethane Trichloroethylene Toluene	e	13 U U 3.2 U	3 3 3 3 3	2 K 2 K 2 K 2 K 2 K	1 K 1 K 1 K 8

[†] EPA analysis indicates Total Metals, whereas RFL Industries' analysis is for Dissolved Metals.

Comparison of EPA's Analytical Results with RFL Industries' Data for Monitoring Well #4 (down-gradient)

Parameter	EPA 7/2/85	RFL 1/24/85	RFL 4/12/85	RFL 7/22/85
рН (SU)	6.36	5.83	6.18	6.33
Specific Conductance (um/cm @ 25°C)	57	38	60	700
TOC (mg/1)	11.88	4.5	4.3	9.6
TOX (ug/1)	24	30	50	10
Cyanide (mg/l)	.02 K	.001 K	NA	.002 K
Hexavalent Chromium (ug/l)	7 K	50 K	10 K	10 K
Metals(ug/1) †		•		
Silver Arsenic Beryllium Cadmium Chromium Chromium Copper Mercury Lead Nickel Antimony Selenium Thallium Zinc Organics(ug/1)	2 K 2 K 5.5 3 K 20 J 62 .2 K 40 J 20 K 1 K 1 K .4 K	2 K 20 NA 2 K NA 30 0.5 K 12 NA NA NA	NA NA NA NA NA NA NA NA NA NA NA NA	2 K 5 K NA 1 K 4 49 0.5 K 37 NA NA NA
Methylene Chloride Tetrachloroethylene l,l,l Trichloroethane Trichloroethylene Toluene	403 U U 2 4.5	3 3 3 3 3	2 K 2 K 2 K 2 K 2 K	1 K 1 K 1 K 1 K 1 K

[†] EPA analysis indicates Total Metals, whereas RFL Industries' analysis is for Dissolved Metals.

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EVALUATION AND SITE INSPECTION OF RFL INDUSTRIES, INC. BOONTON, NEW JERSEY

Prepared for:

U.S. Environmental Protection Agency Region II New York, New York

EPA Contract Number 68-01-6515

Work Assignment RO2-002

Prepared by:

Ertec Atlantic, Inc. 15 Campus Drive, Suite 100 Somerset, New Jersey 08873

August, 1982

1.0 INTRODUCTION

This report presents the results of a technical review of the alternate ground-water monitoring plan of RFL Industries, Boonton, New Jersey. The purpose of this review is to assess the effectiveness of the ground-water monitoring program and to determine the facility's compliance with the requirements of Subpart F (40 CFR 265.90-265.94) of the Resource Conservation and Recovery Act (RCRA).

Information used in preparing this review includes technical documents submitted by the New Jersey Department of Environmental Protection (NJDEP), consultant's geohydrological reports, laboratory sample analysis reports, well and boring logs, and local topographic maps. Data collected during an earlier site inspection of the facility by Ertec in August, 1982 were also incorporated into the review.

The hazardous waste facility at Boonton consists of a 100 sq. ft. surface impoundment. The impoundment has been receiving approximately 100 gallons per day of waste water from existing metal finishing operations. Preceding December 1980, approximately 3000 gallons per day of waste water was discharged to the containment lagoon. This was due to the previous manufacture of printed circuit boards.

2.0 SUMMARY OF REVIEW COMMENTS

2.1 REGULATORY DEFICIENCIES

The monitoring system, sampling and analysis plan, and data accumulated by RFL Industries have been reviewed by Ertec for compliance with 40 CFR 265.90-265.94. The deficiencies in the alternate groundwater monitoring program, established at the site, are summarized below:

- 265.93(d)(7) Presently, samples are collected on a monthly basis in accordance with a N.J.D.E.P. order. Prior to this, monthly sampling program, groundwater samples were not taken on a quarterly basis. After completion of the present program, quarterly analysis should be initiated unless it is deemed by the N.J.D.E.P. that more frequent sampling and analysis is necessary.
- Failure to develop a ground-water quality assessment program, as outlined in 265.93(d)(4).

2.2 TECHNICAL DEFICIENCIES

- A potentiometric map should be constructed for the facility.
 This map should include more representative data points,
 besides the three monitoring wells.
- A fourth monitoring well located downgradient and to the west of the lagoon, as suggested by Ground/Water Technology, should be given strong consideration, especially if the results of the alternate ground-water monitoring program show groundwater contamination and migration.

3.0 WORK ASSIGNMENT REVIEW

As submitted to Ertec by EPA Region II, Work Assignment R02-002 included an evaluation of RFL Industries for compliance with the regulatory requirements promulgated in 40 CFR, Subpart F, 265.90-265.94.

3.1 COMPLIANCE WITH 40 CFR 265.90-265.94

The primary regulatory requirements under 40 CFR 265.90-265.94 call for establishment of a ground-water monitoring system (265.91), the development of a sampling and analysis plan (265.92) and proper record-keeping and reporting procedures (265.94).

The nature of the regulations which involve the ground-water monitoring system and the sampling and analysis plan allow professional judgment wherever possible. The regulations require general tasks that imply that more specific work be completed in order to satisfy those regulations. Those <u>implied</u> requirements are somewhat subjective but, in the opinion of Ertec, imply a minimum requirement. Some of the comments included as "non-compliance" comments are relative to implied requirements but may as easily be included under Section 5.0, Additional Comments and Technical Recommendations.

3.1.1 Ground-Water Monitoring System

An alternate ground-water monitoring system has been established at RFL Industries in accordance with 265.90(d). It was developed in agreement among the parties involved: RFL Industries, the consulting firm of Ground/Water Technology, Inc. and the New Jersey Department of Environmental Protection (NJDEP).

The implementation and development of this program was the result of a preliminary hydrogeological investigation undertaken by Ground/

Water Technology in February, 1982. Their study revealed the presence of an abnormally rapid increase in the concentration of organic compounds in monitor well-3, in May of 1981. Monitor well-1 (the upgradient well) had been found to only exceed the drinking-water suitability limit for lead and was well within the limits for all organic compounds. Monitor well-2 has also been found to exceed the limits for various organic compounds.

There are three monitoring wells at the facility (See Figure 1). Monitoring wells 2 and 3 are designated as downgradient wells with the third well (MW-1) serving as the upgradient well. The wells were constructed in June of 1980 by the Morethrench American Well Company of Rockaway, New Jersey. Pumping tests performed during well completion defined well yields between 20 and 38 gpm within the upper zone.

The wells were installed using a rotary drilling rig. The depths are as follows: MW-1 at 29 feet, MW-2 at 26 feet and MW-3 at 30 feet. Each well is constructed of 2-inch diameter PVC casing. The screen is constructed of 20-slot PVC. The length of the screens are 20 feet. The screen is emplaced on the bottom of MW-1, but in MW-2 and 3 the screen is located above 4 feet and 3 feet, respectively, of additional casing. The borehole diameter is 6" for all three wells.

During the well installation, 1/2 bag of Revert was used for each well. The annular spaces in each well were sealed with one bag of bentonite and a box of bentonite pellets to form a slurry. The gravel pack surrounding the screen is composed of #3 Morie filter gravel.

The wells extend above the ground elevation, resulting in a stick-up of between 2 and 2-1/2 feet.

The lithology and depth for all three wells are presented in Table 1. One well was terminated due to bedrock at approximately 26 feet

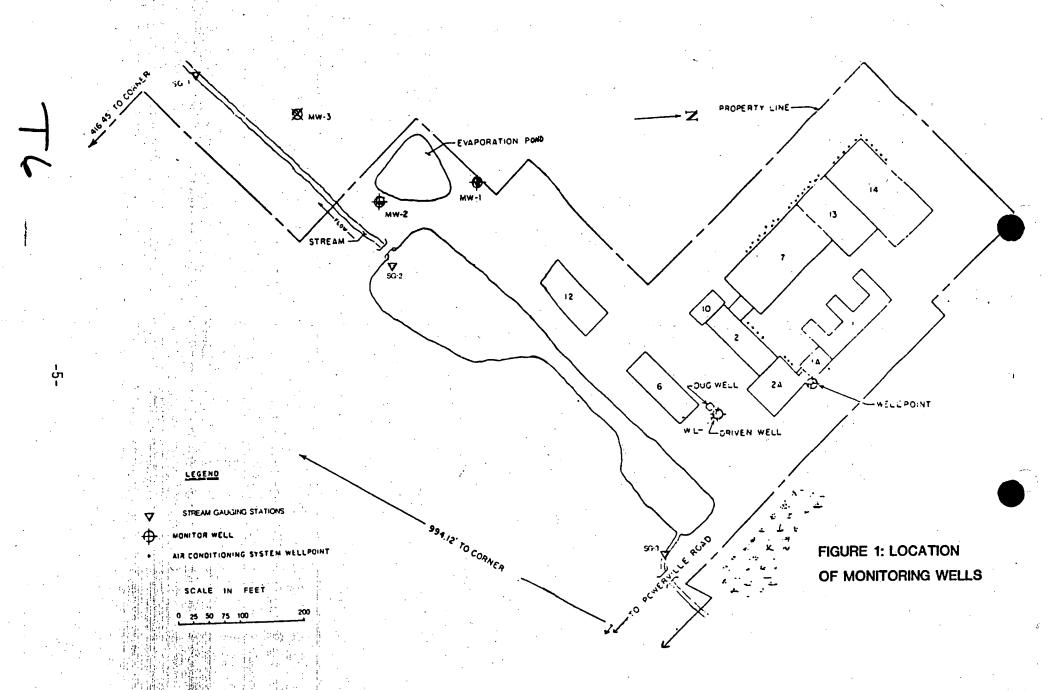


TABLE 1 BORING LOGS

MONITORING WELL #1

	1.						
<u>DEPTH</u>	<u>FORMATION</u>						
0 - 5' 5'- 14' 14'- 20' 20'- 30'	Coarse sand and med. sand Fine to med. sand angular, some silt Same as above						
20 - 30	Coarse to very coarse. Small per- cent of fine to med. sand						
• .	MONITORING WELL #2						
0 - 10'	Cobbles, gray fine to med. sand, cobbles near surface						
10'- 25'	Med to coarse tan sand. Very coarse sand at 25', some pea gravel 1-5 mm.						
26'	Rock - sloping to east						
MONITORING WELL #3							
0'- 15' 15'- 20'	Silty sand (Sand fine to med.) Sand silt						
20'- 30'	Sand (coarse to very coarse)						
. '	Clean just a small percent of silt						

Based on logs made by Moretrench American Corporation, 1980.

deep. The uneven bedrock surface varies from approximately 25 to 45 feet beneath the surface.

The soil on the site is predominately Wisconsin stratified drift, a glacial deposit composed of layers of sand and gravel, sands and silty sand. The monitor well boring logs indicate that the upper 30 feet of soil in the vicinity of the evaporation pond, is generally composed of a 10 to 20 foot layer of fine to medium sand or silty, fine to medium sand, overlying a 10 to 20 foot thick layer of medium to coarse sand.

3.1.2 Sampling and Analysis Plan

Ground-water sampling and analysis for the facility has been carried out by Industrial Corrosion Management Incorporated, Randolph, New Jersey. The firm is a state certified drinking water/waste-water analysis lab.

The plan calls for samples to be collected once a month for a period of three months. The sampling stations include the three monitoring wells, the upstream (SG-3) and downstream (SG-1) surface water gaging stations, the discharge pipe into the infiltration lagoon (SG-2), and the infiltration lagoon's liquids. The samples from the infiltration lagoon are taken as close to the lagoon bottom as possible, in order to obtain a representative sample.

The sampling procedure provides for ground-water level measurements to be taken prior to the sample procurement. These elevations are obtained monthly from the three on-site monitoring wells as well as surface water level elevations from the following three stations: upstream station at the facility's access road to Powerville Road, at the outlet of the fire pond, and the downstream station approximately 200 feet downstream of monitoring well-3. All stations were surveyed by a New Jersey licensed land surveyor to the same datum as the monitor wells.

The sampling techniques used in the plan have been approved by the N.J.D.E.P. Samples are collected using a stainless steel grabber. Special self-sealing glass vials are used for containing volatile-organicanalysis samples. For metal analysis, standard polyethylene bottles are used. The glass sample bottles are rinsed with the sample water before being filled. After rinsing, the sample bottle is filled with the sample using a minimum of agitation. One-inch airspace is left at the top to enable the chemist to adequately mix the sample before analyzing it.

In order to avoid cross-contamination, all sampling materials are triple rinsed. They are first washed with methanol, then rinsed with distilled water. The methanol is allowed to volatize before resuming sampling. All samples are kept cool after collection by packing them in ice chests.

A sampling and analysis plan has been developed and implemented. Completion is expected in late August. The parameters analyzed for are listed in Table 2. The first two monthly results of these parameters are listed in Tables 3 and 4. The volatile organics are listed only if their concentration is greater than one part per billion.

3.1.3 Record Keeping and Reporting

The monthly analysis is submitted to the N.J.D.E.P. for review. Presently, data from June and July have been submitted. The final analysis is tentatively scheduled for the third week of August. Within thirty days of the end of the testing period, the facility will submit to the N.J.D.E.P. a written report summarizing the sampling investigation and recommendations for future analysis.

3.2 GROUND-WATER MONITORING DEFICIENCIES

Review of the available information has found deficiencies in ground-water monitoring which reflect non-compliance with the applicable regulatory requirements.

TABLE 2

GROUND-WATER ANALYSIS PARAMETERS

VOLATILE ORGANICS

Chromium Total

Chromium Hexavalent

INORGANIC COMPOUNDS

Lead

Nicke1

Fluoride

Chloride

Total Dissolved Solids

Oil and Grease

Nitrates

рН

Xylene

Ethyl Benzene

Tetrachloroethylene

Toluene

1, 1, 2, 2-Tetrachloroethane

Benzene

Trichloroethylene

Carbon Tetrachloride

1, 1, 1-Trichloroethane

1, 1-Dichloroethylene

1, 2-Dichloroethane

Chloroform

1, 2-Dichloroethylene

1, 1-Dichloroethane

Trichlorofluoromethane

Methylene Chloride

TABLE 3

	CONTAMINANT SAMP	CONCENTRA	MAY 23, 198	UND-WATER 2 등	۵		Dov
	Well-1 Monito	Well-2 Monitor	Well-3 Monitor	stream	ischarge Lagoon	Bottom Lagoon	Downstream
ANALYTICAL TEST	tor		<u> </u>		ge		
Total Chromium (as Cr) Lead Nickel Fluoride	0.07 0.09 0.005 0.022	0.01 0.06 0.01 0.26	0.004 0.005 0.005 0.36	.005 .01 .002 .28	.35 .02 .01 .29	.60 .49 .05 .57	.004 .01 .003 .51
Chloride Total Dissolved Solids	6.8 29.6	37 90	38.4	72.4	389	456	132
Oil & Grease Nitrate (as N)	LT 0.1 0.70	5.5 0.83	LT 0.1 2.50	LT 0.1	0.3 2.50	LT 0.1 .56 .035	LT 0.1 .30 LT 0.1
Hexavalent Chromium(As Cr) pH (units)	Lt 0.1 6.5	LT 0.1 6.8 3.8	LT 0.01 8.7	LT 0.01 7.1	0.045 8.0 9.1	8.7 1.2	7.0
Methylene Chloride 1, 1-Dichloroethylene 1, 1-Dichloroethane		1.7 19.8	14.2		2.7		
t-1, 2-Dichloroethylene 1, 1, 1-Trichloroethane TCE (Trichloroethylene)	•	0.8 284.7 2.8	.8 2.1		73.4 22.6	0.8	
Chloroform Acetone			. 95		1.0 651.5 2.6	0.0	
Toluene Freon 113		LT50			LT 1.0	LT 1.0	LT 8.0

All results reported as mg/l (ppm) unless otherwise stated.

LT = less than

TABLE 4

CONTAMINANT CONCENTRATIONS OF GROUND-WATER SAMPLES TAKEN JULY 14, 1982

	Well-1 Monitor	Well-2 Monitor	Well-3 Monitor	Upstream	Discharge Lagoon	Bottom Lagoon	Downstream
ANALYTICAL TEST							
Total Chromium (as Cr) Lead Nickel Fluoride Chloride Total Dissolved Solids Oil & Grease Nitrate (as N) Hexavalent Chromium(as Cr) pH (units) Methylene Chloride 1, 1-Dichloroethylene 1, 1-Dichloroethane	0.005 0.011 LT 0.001 LT 0.01 5.0 93.8 LT 0.1 0.332 r) LT 0.001 6.68	.007 .009 LT .001 .25 .30 151 LT 0.1 .316 LT .001 6.68 45.0 3.7 40.9	.003 .018 .003 .43 5.0 75 0.1 1.51 LT .001 5.92	.005 .014 LT .001 .12 16 90 LT0.1 LT .013 .002 7.20	.763 .085 .009 .44 73.5 332 0.1 3.54 .01 7.26 19.7 2.2 1.3	.114 .056 .015 .58 55 329 LT 0.1 .253 .05	.004 .042 .005 .47 28 159 LT 0.1 LT .013 .002 6.92 0.44 0.82 7.5
t-1, 2-Dichloroethylene 1, 1, 1-Trichloroethane		1.5 401.6	r <i>c</i> r		39.3 23.8	5.2	9.4 90.5
TCE (Trichloroethylene) Dibromochloromethane PCE(Tetrachloroethylene)		11.9 2.2 0.7	5.65		2.6 1.0 1.8	2.5	0.9
Heptane Freon 113		LT50	,		1.0		LT10

All results reported as mg/l (ppm) unless otherwise stated.

LT = less than

3.2.1 Ground-Water Monitoring Deficiencies

The ground-water monitoring system presently includes three monitoring wells, one upgradient and two downgradient.

• Well placement and location seem to be providing accurate data of ground-water contamination. A map of the ground-water elevations taken during facility visit is presented in Figure 2. Ground-water flow is toward the southwest, with the flow of the stream. A potentiometric map constructed of data acquired over the monitoring period, is essential for completing a competent evaluation of the monitoring system.

A proposed fourth monitoring well, located downgradient and to the west of the lagoon, as suggested by Ground/Water Technology, should be given strong consideration, especially if the results of the alternate ground-water monitoring program show ground-water contamination and migration.

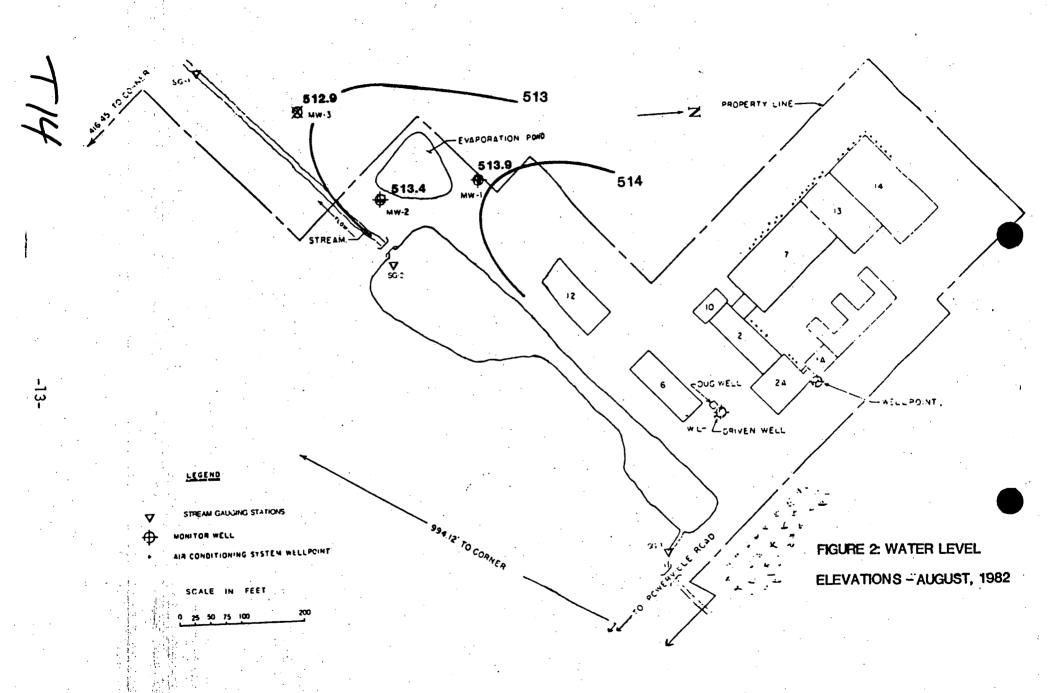
3.2.2 Sampling and Analysis Plan

• 265.93(d)(7)

Presently, samples are collected on a monthly basis in accordance with a N.J.D.E.P. order. Prior to this monthly sampling program, ground-water samples were not taken on a quarterly basis. After completion of the present program, quarterly analysis should be initiated unless it is deemed by the N.J.D.E.P. that more frequent sampling and analysis is necessary.

3.2.3 Record Keeping and Reporting

The facility is in compliance with the record keeping and reporting procedures as promulgated in 265.94(b).



4.0 TECHNICAL REVIEW

Inspection of RFL Industries, Inc. has found the facility to be in non-compliance with the RCRA regulations outlined in 40 CFR, Subpart F, for an alternate ground-water monitoring system (265.90(d)). Non-compliance is the result of inadequacy in the ground-water monitoring system and to the frequency of sampling and non-assertive action following the first detection of the contaminants in May of 1981.

The alternate ground-water monitoring plan presently employed, comes almost a year after the first detection of the contaminants. A consulting firm was hired to work with the N.J.D.E.P. to help assess the contamination problem at the facility. The result is the presently operating ground-water monitoring system.

Static water level elevations, measured at various time intervals at the facility (Table 5(a)) indicate a local ground-water flow direction toward the southwest. In the report by Ground/Water Technology, Inc. it is stated that the ground-water levels of the monitor wells is indicative of ground-water flow beneath the evaporation pond and into the adjacent stream. The report establishes a flow direction from the lagoon directly into the stream. In view of this, the location of monitor well-3 is probably outside the flow path from the lagoon to the stream. Water-level elevations taken August 4 at the facility (Table 5(b)) confirm the southwesterly ground-water flow direction. Without an accurate potentiometric map of the area, monitor well-3 can not really be discounted, in terms of any contaminant migration.

The facility does affect the ground-water, but on a very small scale. It's been reported that the wellpoint near building IA, located about 700 feet away from the lagoon, pumps constantly and any water from this wellpoint that is not needed is directed to the dug well where it recharges the ground water. Data is not available on the pumping rates and recharge. The air conditioning wellpoints along Buildings 2, 7, 13 and 14 are used only in the summer months, although they appear to have little effect on ground-water levels.

TABLE 5 (a)

PREVIOUS WATER LEVEL MEASUREMENTS OF GROUND-WATER MONITORING WELLS AT FACILITY

:	July 22, 1982	May 28, 1982	December 29, 1981
Monitor Well-l	512.16	512.06	511.61
Monitor Well-2	511.05	511.03	510.52
Monitor Well-3	510.77	510.73	510.73

TABLE 5 (b)

DEPTH AND WATER LEVEL MEASUREMENTS OF GROUND-WATER MONITORING WELLS, AUGUST 4, 1982

	Total Depth	Total Depth When Drilled	Top of Casing	Depth <u>To Water</u>	Water Level Elevation	·
Monitor Well-1	30.2'	29'	522.01'	8.1'	513.91'	Upgradient
Monitor Well-2	24.6'	26'	518.91'	5.5'	513.41'	Downgradient
Monitor Well-3	29.4'	30¹	517.71'	4.8'	412.91'	Downgradient

Ground-water hydraulic studies were not completed at the site; although, the flow rate has been estimated by Ground/Water Technology, Inc. Using the hydraulic gradient and an assumed permeability range of 10^{-4} to 10^{-2} cm/sec. for the soils (as described in the area of the evaporation pond), a flow rate, in the range of 0.005 to 0.5 feet per day has been estimated.

A study completed in 1966 by the American Dewatering Corporation revealed the facility to be situated in the extreme upstream end of a restricted underground basin which drains south into the Rockaway River. Pumping tests done in April of that year yielded 100,000 gallons of water at a rate of 24 gpm in a span of 110 hours. This led the firm to the conclusion that the aquifer shape is too complex for conventional analysis. The conclusions which were achieved are as follows:

- Time-drawdown data showed a consistently increasing slope, indicating the presence of barrier boundaries to the north and west of the plant coinciding with topographic boundaries.
- 2) The recovery of water level in the upper coarse sand was very slow after pumping stopped, indicating a lack of underground recharge.
- 3) Good vertical transmissibility of the shallow sands was observed near building 2A.

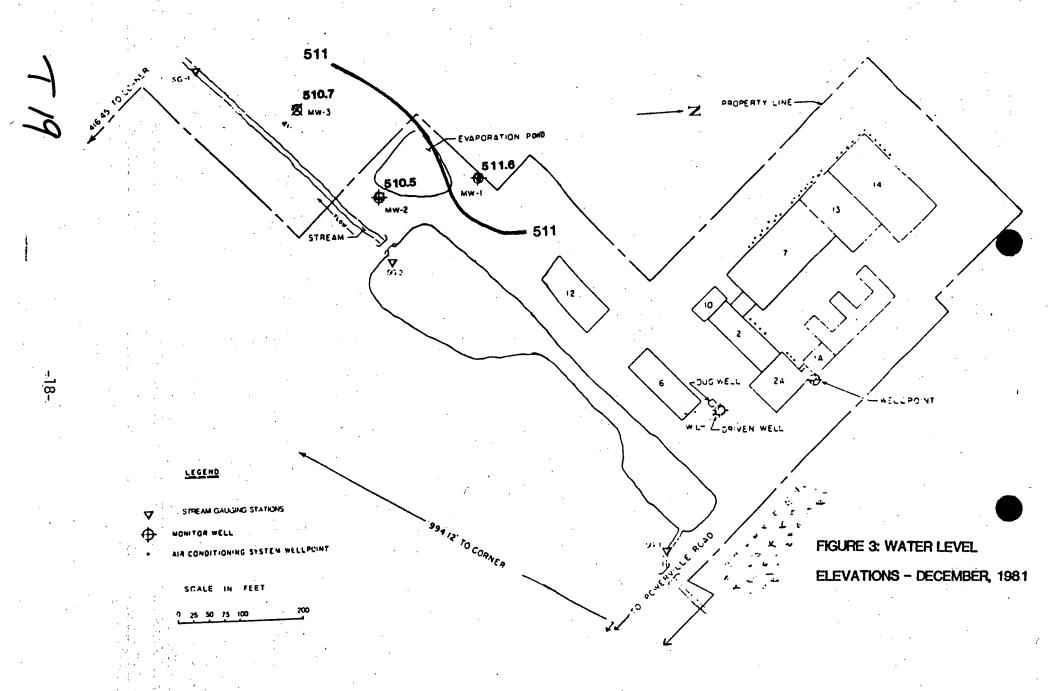
The study also focused on the major dewatering of the aquifer by the facility. This would result in an increased underground recharge, by attracting flow from minor tributaries to the basin. The dewatering would also cause a reverse flow, returning water which had already flowed beneath the facility toward the Rockaway River. There has been no major dewatering of the aquifer in recent years.

Until further testing has been completed, characterizing the aquifer and determining the rate and extent of contamination, it is difficult to determine if any immediate problem exists.

From review of the water-level elevation data, we can see some fluctuation due mostly to seasonal storms and runoff. Figure 2 illustrates the ground-water flow using the data obtained at the facility visit. Figure 3 shows the ground-water flow as suggested by measurements made by Ground/Water Technology, Inc. in December, 1981. Both figures show similar patterns, in terms of ground-water flow. Monitor well-1 is clearly upgradient from the other two monitoring wells and should yield samples representative of background conditions. This is the main reason why the contaminants in this well are almost negligible. Monitor well-2 shows some evidence of contamination, especially the presence of volatile organics. These are evidently emanating from the lagoon. Monitor well-3 also shows signs of contamination, generally less than monitoring well-2, except for 1, 1-Dichloroethane, chloroform, flouride and chloride. This well is located about 150 feet away from the lagoon, possibly too far to detect the same level of contaminants found in monitor well-2 due to dilution.

The general effectiveness of the monitoring wells appears to be acceptable. They are all screened in the upper portion of the water-bearing zone, thereby yielding representative ground-water samples. Since monitoring well-2 is located about 25 feet away from the lagoon, vertical migration of contaminants is expected to be minimal within the zone between the lagoon and the well.

Evidence from the well logs indicates the presence of sands and silts in the water-bearing zone. No low permeability layers are found underlying the facility; therefore, water movement through the sediments may conduct contaminants to other water-bearing horizons. The stratified drift overlying the glacial aquifer contains small amounts of clay; therefore, the possibility of contaminant adsorption and attenuation by the geologic materials is low.



5.0 ADDITIONAL COMMENTS AND TECHNICAL RECOMMENDATIONS

- A potentiometric map should be constructed for the facility.
 This map should include more representative data points,
 besides the three monitoring wells.
- Ground-water flow trends to the southwest. A monitoring well should be constructed near the western perimeter of the lagoon in order to effectively detect ground-water contamination originating from the nearby lagoon.
- A ground-water quality assessment program should be implemented as outlined in 265.93(d)(4) as soon as possible.
- The effect of pumping on ground-water flow should also be assessed.

WELLS

PARAMETER

LIMITATION

1

2

<u>#3</u> <u>#4</u>

Ammonia Nitrogen	0.5 ppm	0.05	0.010	0.140	0.11
Arsenic and Compounds	0.05 ppm	ND	ND	ND	ND
Barium	ND	ND	ND	ND	ND
Cadmium	0.01 ppm	0.001	0.001	ND	ND
Choride	250 ppm	2	26	ND	ND
Chromium (Hex) and Compounds	0.05 ppm	ND	ND	ND	ND
Copper	1.0 ppm	0.015	0.018	0.008	0.011
Cyanide	0.2 ppm	ND	ND	ND	ND
Fluoride	2.0 ppm	0.18	0.48	0.57	0.37
Iron	0.3 ppm	0.455*	.341*	.275	.420*
Lead and Compounds	0.05 ppm	0.008	0.008	0.006	ND
Mercury and Compounds	0.002 ppm	0.0002	0.0002	0.0002	0.0003
Nitrate Nitrogen (NO ₃ -N)	10 ppm	0.94	0.58	0.19	.32
pH	5-9 su	not test- ed by NJDEP	PANDED	NJDEP	NOT TESTED BY NJDSP
Phenols	0.3 ppm	ND	ND	ND	ND
Phosphate, Total	ppm	1.13 as PO ₄	3.80as PO ₄	0.60as PO ₄	3.94as PO ₄
Silver and Compounds	0.05 ppm	ND	ND	ND	ND
Sodium	50 ppm	1.9	12.3	5.0	3.5
Specific Conductance	µmho/cm	63.2	174.4	43.4	48.7
Total Dissolved Solids	500 ppm	53	157	41	_52
Total Organic Carbon	ppm	PA NIDED NOT tested	Not Tested	M O P P	HOTE NEBEP
Total Volatile Organics	50 ppb	ND	46.9	1.3	ND *
Zinc and Compounds	5 ppm	0.048	0.048	0.021	0.023

ND - not detected.

TH

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION TRENTON, NEW JERSEY 08625

CHAIN OF CUSTODY RECORD

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SAMPLE NUMBER	Number of Containers		DESCRIP	TION OF SA	MPLES		<u> </u>	
4/053		VIO. SCAN				vide, 4 Spec, Con		
41054	6 Yvials	V. O. SCAN				vanide, + Spec. Co		
41055	6 4 vials	و بشمیر	entcal, Nutrient	s, pHe	NoLs,	CYANIDE, & Spec. C	Cond	
41056	6 4 vials	1	utcal, Nutrients	, PHEA	vols,	CYANIDE, + Spec	GNA	•
43134	vials	V.O. CONTROL	Blanks					
		RESPONSIBILITY FOR SAMPI ALTIER 208	E:				TIME	DATE VZ3/36
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Form	VST-	001
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STATE OF NEW JERSEY Department of Environmental Protection

.,	Department of Environmental Protection	•
PLEASE TYPE OR PRINT SP-4-86	Water Analysis	BACT, LAB NO.
MUNICIPALITY BOON TO TUP COUNTY	MORRIS STREAM	DATE REC'D.
FACILITY TO PEI		BOTTLE NO. 41053
REPRESENTATIVE TITLE	TONY ALTIER	DATE REC'D.
REMARKS	- HENY HEITER	STORET ENT.
	222- :	24 D
Station Identification Number	YR MO. DAY HOUR	Sample No.
s c ,	860123	(1) P8, , ,
FIELD ANALYSIS	BACTERIOLOGICAL - DILUTIONS (REQUESTED)	□ p ^H (LAB) (39) P90403.
- Wasan	Fecal Coliform 10 1 10 10 16 12 10 10	Alkalinity
□ Water Temp.°C. (2) P00010,	-1-2-3-4-1-6	as CaCo ₃ (40) P00410,
D.O Winkter(3) P00300,	Fecal Streptococci (0 1 10 10 17 1) 10 10	☐ as CaCo ₃ (41) P00436,
□ D.O Probe (4) P00299,	Fecal coli MPN (24)P31615.	DChloride (42) P00940,
☐ P ^H (Field) (5) P00400,	#100 ml	☐ MBAS (43) P38260,
Sample Depth-ft. (6) P00003.	Fecal Strept (26)P31677	D Phenois (44) P32730.
Stream (7) P00061.	MPN/100mi (26)P31677,	Hardness - tot as CaCo ₃ (45) P00900.
Gage Height-ft. (8)P00065	Tot coli (27)P31505	D Sulfate (46) P00945.
Spec. Cond. 9 25°C (9)P00095.	MPN/100 mi (27)P31505.	Oil & Grease (47) P00556.
Salinity 0/00 (10) P00480,	BIOCHEMICAL OXYGEN DEMAND	Petroleum Hydrocarbons(48) P45501.
☐ Tide Stage (11)P70211,	INITIAL D.O. (lab.)SAMPLE	
The state of the s	SEED YES [NO []	Cyanide (49) P00720.
CONDITION CODES	CONC. %	As - tot ug/1 (50)P01G02
Weather Conditions (12) P00041,		Cd - tot ug/i (51)P01027
☐ Flow Severity (13) P01351,	BOD	Cr - tot ug/i (52)P01034
Severity (14) P013	□ BOD 5-DAY(28) P310, 6-DAY(29) P312,	Z Cu - tot ug/i (53) P01042
· - ·	,	Te - tot ug/1 (54) P01045
Severity (15) P013,	□ COD (30) P340,	/
NUTRIENTS	1	12 Hg - tot ug/l (55) P71900
LEVEL HIGH LOW	□ TOC (31) P00680.	☐ Mn - tot ug/i(56) P01055.
MNO2 - N (16)P00615		□ Ni - tot ug/i (57) P01067
NO2 + NO3 · N (17)P00630	☐ Color Pt - Cou (32)P00080,	M Pb - tot ug/l (58) P01651,
DENH3-N (18)P00610	☐ Turbidity (33)P00076.	Zn - tot ug/i (59) P01092.
Tot. Kjeldahi N (19)P00625.	Suspended Solids (34)P00530,	ADDITIONAL ANALYSIS
,	Suspended Solids (35) P00540,	& BARIUM P
Ortho - (20) P70507,		WSIVER P
PO ₄ as PO ₄ (21) P00660,	Tot. Solids (36)P00500,	Sodium P
Phosphorus-1 (22) P00665.	Tot. Solids - Ash (37)P00510,	V Fluorider
tot as PO (22) P00665, tot as PO (23) P00650,	Tot. Dissolved (38)P70300, Solids (TDS)	CHRCM, HEX.
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RESULTS mg/I unless otherwise noted

Chemist Review ..

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Form VST- 001 7/81		E OF NEW JERSEY Environmental Protection	Or the property
PLEASE TYPE OR PRINT SP-1	1-86	ater Analysis	BACT, LAB NO.
BOONTON Tup,	COUNTY MORRIS	1. TOP AM	BOTTLE 1:0. 41054
FACILITY OWTY - RFL	LOCATION POWERVILE	e Rd.	DATE REC'D
REMARKS		Tony Altieri	STORET WAR
		222-241	
		<u>.</u>	

272-Z4D					
Station Identification Numbe	r YR. MO. DAY HOUR	Sample No.			
SC,	860123	(1) P8,			
FIELD ANALYSIS	BACTERIOLOGICAL - DILUTIONS (REQUESTED) Fecal Coliform 10 1 10 </th <th>□ pH (LAB) (39) P00403</th>	□ pH (LAB) (39) P00403			
Water Temp. °C. (2) P00010, , ,	Fecal Streptococci 10 1 10 10 10 10 10 10 10 10	☐ as CaCo ₃ (40) P00410, ☐ Min. Acidity ☐ as CaCo ₃ (41) P00436. ☐			
O.O Probe (4) P00299,	Fecal coli	LE Chioride (42) P00940.			
☐ P ^H (Fleid) (5) P00400,		MBAS (43) P38260, Phenois (44) P32730,			
Stream (7) P00061.	Fecal Strept (26)P31677.	Hardness - tot (45) P00900.			
☐ Gage Height-ft, (8)P00065,	Tot coli (27)P31505, MPN/100 ml	DS Sulfate (46) P00945,			
☐ Salinity 0/00 (10)P00480,	BIOCHEMICAL OXYGEN DEMAND	Petroleum Hydrocarbons(48) F45501,			
☐ Tide Stage (11)P70211,	INITIAL D.O. (1ab.) SAMPLE SEED YES NO	Cyanide (49) P00720,			
CONDITION CODES	conc. %	As - tot ug/l (50)P01202.			
☐ Weather Conditions (12) P00041,	BOD	M2 Cd - tot ug/l (51) P01027,			
☐ Flow Severity (13) P01351,		Cr - tot ug/l (52)P01034.			
Severity (14) P013,	6-DAY(29) P312,	☑ Cu - tot ug/l (53) P01042.			
Severity (15) P013,	□ COD (30) P340,	Fe - tot ug/l (54) P01045.			
NUTRIENTS	,	☐ Mn - tot ug/I(56) P01055.			
LEVEL HIGH LOW	☐ TOC (31) P00680,	□ Ni - tot ug/i (57) P01067.			
NO2 + NO3 - N (17)P00630,	☐ Color Pt - Cou (32)P00080,	Pb - tot ug/l (58) P01051			
MH3-N (18)P00610	☐ Turbidity (33)P00076,	Zn - tot ug/l (59) P01092			
Tot. Kjeldahi N (19)P00625	☐ Suspended Solids (34) P00530,	M DARIUM P			
Ortho-	Suspended Solids (35) P00540,	M Silver			
PO ₄ as PO ₄ (21) P00660.	☐ Tot. Solids (36)P00500,	of Sodius ?			
Phosphorus - (22) P00665.	☐ Tot. Solids - Ash (37)P00510,	M Flucrides			
tot as PO ₄ (23) P00650,,	Tot. Dissolved (38)P70300, Solids (TDS)	MCHEMHEX.			

RESULTS mg/I unless otherwise noted

Chemist Review



Form VST-010				CHAIN	UF CUSTO.
8/79	STATE OF NEW JERSEY Department of Environmental Protection		BACT, LAB	NO.	
PLEASE TYPE OR PRINT SP-4-86	Division of Water Resources WATER ANALYSIS		DATE REC	- 	:
			BOTTLE NO	410	54
PACILITY - REI TOWN	Morris STREAM -		DATE REC	• -•	
REPRESENTATIVE		-—		·	
REMARKS	Tony ALTIE	- 24D	1 SIUREI	NT EAD	
STATION IDE	NTIFICATION NUMBER YR. MO.	. DAY	IOUR		,
sici.	8601	123],		
FIELD ANALYSIS	ANALYSIS UNITS	PARAME	TER	VALUE	RMKS.
☐ Water Temp °C P10,		P	,		
D.OWinkler P300,	Spec. Cond.	Р			,
□ D.OProbe P299,		P			
□p ^H (Field) P400.	V.O. SAN	P	++'++		
☐ Sample Depth-ft. P3.		P	 ' 		++-
☐ Gage Height-ft. P65,		╸┝╼╄╼┼╾┼	111		
Spec. Cond.		P	1 1 1		
☐ Salinity 0/00 P480,		- P	11,		
☐ Tide Stage P70211.		P	, -		<u> </u>
		_ P	,		<u> </u>
BACTERIOLOGICAL - DILUTIONS (REQUESTED)	<u> </u>	_ P	,		<u> </u>
Fecal Coliform 10 1 10 10 10 10 10 10	<u> </u>	_ P			
Fecal -1 -2 -3 -4 -5 -6		P			
Streptococci 10 1 10 10 10 10 10 10		P			
Fecal coli		PI	1 1 1		+++
/100 mt		╸┝╾┼╌┼╌┼╌┼			
Fecal Strept	<u> </u>	- P	1 , !	 	
Fecal Strept P31677, P31677,		_ P	11,11		 •
		_ P			
Tot coll P31505. P31505,		_ P			
	<u> </u>	_ P	,		
BIOCHEMICAL OXYGEN DEMAND		P	,		
INITIAL D.O. (Iab.) SAMPLE SEED YES □ NO□		P			
<u> </u>		- P	++'		+++
CONC.%			++++		++
800		╸┡╌╬┷┼╌┽╌┼			
□ 800 □ 5-DAY P310, □	<u> </u>	- P			
6-0AY P312.		P			<u> </u>
DATE TIME	CHAIN OF CUSTODY FROM (NAME)		TO (NA	AME)	
V, O .	CONTROL BLANKS # C-4313	4			
		 			
- 31	Part 1 - Water Quality Inventory	Copy Part 3	. Water Born	ources Convi	For Transmessio
Chemist Review	Part 2 - Chemistry Copy	Part 4		logy Copy	

Form	VST-	001
7/21		

STATE OF NEW JERSEY

□ D.O Probe (4) P00299, □	7/81	Department of Environmental Protection	
DATE RECO. STORT DATE RECO. DATE RECO. DATE RECO. STORT RECO. DATE RECO. DATE RECO. DATE RECO. STORT RECO. DATE RECO. DA	PLEASE TYPE OR PRINT SP-4-94	water Analysis	BACT. LAS NO.
PELD ANALYSIS SACTERIOLOGICAL - DILUTIONS (REQUESTED) PROBLEM PROBLE		MORDIC STREAM	
Size Size	FACILITY DOINTS - REL LOCATION	Physeville Rd.	BOTTLE NO. 4/033
Station Identification Number	REPRESENTATIVE		DATE REC'O.
Section Identification Number YR. MO. DAY HOUR	REMARKS		STORET
SEC		<u> 277-7</u>	4D
S C	Station Identification Number	YR. MO. DAY HOUR	Sample No.
Waster	s c ,	860123	(1) P8,
Water Colo	FIELD ANALYSIS	BACTERIOLOGICAL - DILUTIONS (REQUESTED)	
Tamp.9C, (2) P0010, Co. Winkler(3) P00300,	[Alkalinity
D.O Winkler(2) P003000	□ Water Temp. °C. (2) P00010,	10tal Collidor	<u> </u>
PH (Floid) (5) P00400.	D.O Winkler(3) P00300,		☐ as CaCo ₃ (41) P00436.
PH (Floid) (5) P00400.	D.O. Probe (4) P00299,	recarcon Class	MCCnioride (42) P00940.
Stream Conditions Conditi	P ^H (Field) (5) P00400,	#100 mi U MP (25)P31613.	☐ MBAS (43) P38260.
Strew-Frow-Frow-Frow-Frow-Frow-Frow-Frow-Fro	Sample Depth-ft. (6) P00003,	Fecal Strept /261931677	Phenois (44) P32730.
Sepec. Cond. (9) P00095.	Stream (7) P00061,	MPN/100ml	Hardness - tot (45) P00900.
Sepec. Cond. (9) P00095.	Gage Height-ft (8)P00065	G Taxasii	DE Sulfate (46) P00945.
Salinity 0/00 (10) P00480, BIOCHEMICAL OXYGEN DEMAND Petroleum Hydrocarbons(48) P455G1, Conditions (12) P00041, SEED YES NO CONDITION CODES CONC. % NO Conditions (12) P00041, BOD Conditions (12) P00041, BOD Conditions (13) P01351, Cr - tot ug/i (51) P01027, Conditions (14) P013, Conditions (15) P013, Conditions (15) P013, Conditions (15) P013, Conditions (16) P01041, Conditions (16) P01041, Conditions (16) P01041, Conditions (16) P01041, Conditions (16) P01041, Conditions (16) P01042, Conditions (16) P01042, Conditions (16) P01042, Conditions (16) P01042, Conditions (16) P01042, Conditions (16) P01042, Conditions (16) P01045, Conditions (16		MPN/100 ml (27)P31505.	Oil & Grease (47) P00556.
Tide Stage (11)P70211, SEED YES NO SAMPLE Cyanide (49) P0072C.	Salinity 0/00 (10)P00480.	BIOCHEMICAL OXYGEN DEMAND	• ————————————————————————————————————
CONDITION CODES CONC. % CONC	☐ Tide Stage (11)P70211.	INITIAL D.O. (lab.)SAMPLE	I. /
Weather Conditions (12) P00041, BOD S-DAY(28) P310, Cd - tot ug/l (51) P01027, Cd - tot ug/l (51) P01027, Cd - tot ug/l (51) P01027, Cd - tot ug/l (51) P01034, Cd - tot ug/l (52) P01034, Cd - tot ug/l (52) P01034, Cd - tot ug/l (52) P01034, Cd - tot ug/l (52) P01034, Cd - tot ug/l (53) P01042, Cd - tot ug/l (53) P01042, Cd - tot ug/l (53) P01042, Cd - tot ug/l (53) P01042, Cd - tot ug/l (53) P01042, Cd - tot ug/l (53) P01042, Cd - tot ug/l (53) P01042, Cd - tot ug/l (53) P01042, Cd - tot ug/l (53) P01042, Cd - tot ug/l (53) P01042, Cd - tot ug/l (53) P01045, Cd - tot ug/l (53) P01045, Cd - tot ug/l (53) P01055, Cd - tot u	_	SEED YES [NO]	E Cyamus (49) 700720.
Flow Severity	CONDITION CODES	CONC.%	As - tot ug/l (50)P01002
Flow Severity	☐ Weather Conditions (12) P00041,	BOD	2 Cd - tot ug/l (51)P01027,
Severity (14) P013, 6-DAY(29) P312, 7 Cu - tot ug/i (53) P01042_i 7 Cu - tot ug/i (53) P01042_i 7 Cu - tot ug/i (53) P01042_i 7 Cu - tot ug/i (53) P01042_i 7 Cu - tot ug/i (53) P01042_i 7 Cu - tot ug/i (53) P01042_i 7 Cu - tot ug/i (53) P01042_i 7 Cu - tot ug/i (54) P01045_i 7 Cu - tot ug/i (55) P71900_i 7 Cu - tot ug/i (55) P71900_i 7 Cu - tot ug/i (56) P01055_i 7 Cu - tot ug/i (56) P01055_i 7 Cu - tot ug/i (57) P01067_i 7 Cu - tot ug/i (58) P01051_i 7 Cu - tot ug/i (58) P01051_i 7 Cu - tot ug/i (59) P01092_i 7 Cu - tot ug/i (☐ Flow Severity (13) P01351.	c paymana (TTTTT	☐ Cr - tot ug/l (52)P01034
NUTRIENTS	Severity (14) P013,		92 Cu - tot ug/l (53) P01042
COD (30) P340, Mrg - tot ug/i (55) P71900 Mrg - tot ug/i (55) P71900 Mrg - tot ug/i (55) P71900 Mrg - tot ug/i (55) P71900 Mrg - tot ug/i (56) P01055 Mrg - tot ug/i (57) P01067 Mrg - tot ug/i (57) P01067 Mrg - tot ug/i (57) P01067 Mrg - tot ug/i (58) P01051 Mrg - tot ug/i (58) P01051 Mrg - tot ug/i (58) P01051 Mrg - tot ug/i (59) P01092 Mrg - tot ug/i (59) P01092 Mrg - tot ug/i (59) P01092 Mrg - tot ug/i (59) P01092 Mrg - tot ug/i (59) P01092 Mrg - tot ug/i (59) P01092 Mrg - tot ug/i (59) P01092 Mrg - tot ug/i (59) P01092 Mrg - tot ug/i (59) P01092 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (59) P01067 Mrg - tot ug/i (57) P01067 Mrg - tot ug/i (59) P010	Severity (15) P013,		SE Fe - tot ug/l (54) P01045.
NO2 - N (16)P00615.		□ COD (30) P340,	₩ Hg - tot ug/l (55) 771900
NO2 - N	<u> </u>		☐ Mn - tot ug/i(56) P01055.
NO2 + NO3 - N (17)P00630		11) P00680.	□ Ni - tot ug/l (57) P01067
Turbidity (33)P00076,	· · · · · · · · · · · · · · · · · · ·	Golor Pt - Cou. (32) 900080	DE Pb - tot ug/l (58) P01051
Tot. Kjeldahl N (19)P00625	/ 	<u> </u>	Zn - tot ug/1 (59) P01092.
Ortho - Suspended Solids (35) P00540, Suspended Solids (35) P00540, Suspended Solids (35) P00540, Silver Silver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Soliver P Suspended Solids (36) P00500, Suspended Solids (36)	"		
Ortho- PO4 as PO4 (21) P00660, Tot. Solids (36) P00500, Phosphorus- P (22) P00665, Tot. Solids - Ash (37) P00510, P (22) P00665, Tot. Solids - Ash (37) P00510, P (22) P00665, Tot. Solids - Ash (37) P00510, P (22) P00665, Tot. Solids - Ash (37) P00510,	Tot. Kjeldani N (19)P00625		
Phosphorus- Phosph	Ortho-	· · · · · · · · · · · · · · · · · · ·	
P (22) P00665, P (22) P00665,	PO ₄ as PO ₄ (21) P00660,	☐ Tot. Solids (36)P00500,	
tot as PO. (23) P00650, Tot. Dissolved (38)P70300, Solids (TOS)	Phosphorus-	1 / 	& Fluoride
	tot as PO. (23) P00650,		A'CHEON, HEX-
			The second secon

RESULTS mg/l unless otherwise -ioted

Chemist Review



Part 2

- Chemistry Copy

Part 4

- Bacteriology Copy

Form 7/81	VST-001	
//81		

STATE OF NEW JERSEY

Department of Environmental Protection

PLEASE TYPE OR PRINT SP-4-%	PLEASE TYPE OR PRINT CP // 9/						
MUNICIPALITY TO TO TO COUNTY	MORRIS STREAM	DATE REC'D.					
FACILIDOWTY- RFL	owerville Rd.	BOTTLE NO. 41056					
REPRESENTATIVE	Towy Altie	DATE REC'D.					
REMARKS	109,7131	STORET ENT.					
	222-24	D STORE READ					
Station Identification Number	YR. MO. DAY HOUR	Sample No.					
s c ,	860123	(1) P 8					
FIELD ANALYSIS	BACTERIOLOGICAL - DILUTIONS (REQUESTED)	□pH (LAB) (39) P00403.					
	Fecal Coliform 10 1 10 10 10 10 10 10 10	_ Alkalinity					
□ Water Temp.°C. (2) P00010,	-1-2-3-4-51-6	as CaCo ₃ (40) P00410,					
D.O Winkler(3) P00300	Fecal Streptococci 10 1 10 10 10 10 10 10	☐ Min. Acidity (41) P00436,					
D.O Probe (4) P00299,	Fecal coli	☑ Chloride (42) P00940,					
☐ P ^H (Field) (5) P00400,	#100 ml = 100 ml	☐ MBAS (43) P38260,					
Sample Depth-ft. (6) P00003,	Fecal Strept (26)P31677,	Phenois (44) P32730.					
Stream (7) P00061.	Fecal Strept (26)P31677, MPN/100mi	Hardness - tot as CaCo ₃ (45) P00900,					
Gage Height-ft. (8)P00065	☐ Tot coli (27)P31505	Sulfate (46) P00945,					
Spec. Cond. 9 25 °C (9) P00095,	MPN/100 ml (27)P31505	C) Oil & Grease (47) P00556,					
Salinity 0/00 (10) 900480,	BIOCHEMICAL OXYGEN DEMAND	Petroleum Hydrocarbons(48) P45501,					
☐ Tide Stage (11)P70211,	INITIAL D.O. (lab.)SAMPLE						
	SEED YES [NO []	Z Cyanide (49) P00720,					
CONDITION CODES	CONC. %	As - tot ug/l (50)P01002.					
☐ Weather Conditions (12) P00041,	BOD_	Cd - tot ug/i (51)P01027.					
☐ Flow Severity (13) P01351,		☐ Cr - tot ug/l (52)P01034,					
Severity (14) P013	□ BOD 5-DAY(28) P310, 6-DAY(29) P312,	Cu - tot ug/i (53) P01042.					
Severity (15) P013		Fe - tot ug/l (54) P01045					
,	□ COD (30) P340,	14 Hg - tot ug/l (55) P71900					
NUTRIENTS		☐ Mn - tot ug/l(56) P01055,					
LEVEL HIGH LOW	□ TOC (31) P00680.	□ NI - tot ug/l (57) P01067.					
MNO2-N (16)P00615							
M NO2 + NO3 - N (17)P00630,	☐ Color Pt - Cou (32)P00080,	Pb - tot ug/l (58) P01051					
MNH3-N (18)P00610.	☐ Turbidity (33)P00076,	Zn - tot ug/l (59)P01092					
☐ Tot. Kjeldahi N (19)P00625.	☐ Suspended Solids (34)P00530,	ADDITIONAL ANALYSIS					
Company (Suspended Solids(35)P00540,	K BARIUM P					
Ortho- PO ₄ as PO ₄ (20) P70507.	☐ Tot. Solids (36)P00500.	V SILVER P					
Phosphorus	☐ Tot. Solids - Ash (37)P00510.	V Sodive P					
tot as PO4 (23) P00650.	Tot. Dissolved (38)P70300, Solids (TDS)	V Fluorides					
	Solids (TDS)	MCHeon, HEX.P					
		ار ما الله الله الله الله الله الله الله ا					

RESULTS mg/l unless otherwise noted

Chemist Review .

Form VST-010	STATE OF NEW JERSEY			CHAIN	OF CL
8/79	Department of Environmental Protection		BACT. L	AB NO	
PLEASE TYPE OR PRINT WITH BALLPOINT PEN SP-4-86	Division of Water Resources WATER ANALYSIS	٠	DATER		
MUNICIPALITY COUNTY				4110	5%
FACILITY BOONTON TUP, LOCATION	Morris STREAM -		BOTTLE	• •	<u> </u>
REPRESENTATIVE TITLE	EWERVILLE Kai		DATER	EC'D	
REMARKS	TONY ALTI	ERI	STORET	ENT	
nemanns	/ 222	-24 D	STORE	READ	
STATION IDE	NTIFICATION NUMBER YR. MO.	DAY	HOUR		
sc, III	1. 8601	23	ПП,		
				7	
	<u> </u>			_J	-
FIELD ANALYSIS	ANALYSIS UNITS	PARAMI	ETER	VALUE	RMI
□ Water Temp ^O C Pl0,		P	,,,		
D.OWinkler P300,	Spec, Condi	P	,		
□ D.OProbe P299,		P			
Jp ^H (Field) P400,	V.O. SCAN	Р			
Sample Depth-ft. P3.	VIUL SCAN	 			+ + -
☐ Gage Height-ft. P65.	<u></u>	P	1,		
Spec. Cond.		P	,		
3 Salinity 0/00 P480,	<u></u>	P	,		
_		P			
Tide Stage P70211. ,		P	1 1 1		
		P	+++		
ACTERIOLOGICAL - DILUTIONS (REQUESTED)		╵ ┞═┋╏┈┢═┋	1 1 1		
ecal Coliform 10 1 10 10 10 10 10 10 10		P	,		
ecal -1 -2 -3 -4 -5 -6		P	, ,		
treptococci 10 1 10 10 10 10 10 10 10		Р			
ecal coli		P	111		
/100 m ₄		` 	+++	- 	
Fecal Strept P31677		P	1 ,		
MPN /100 ml P31677, ,		P	11,1		
		P	,,		
Tot coli P31505, ,,		P			
/100 m;		P	++'		† †
BIOCHEMICAL OXYGEN DEMAND		╶ ┠╼╂╼╂╼╂ ╾╁	+ '		+-
INITIAL D.O. (lab.) SAMPLE	<u> </u>	P	111		$\bot \bot$
SEED YES NO		P	,		
CONC.%		P			17
		P			
BOD		P	+ + '+-		
BOD 5-DAY P310,		· 			+-}-
G6-DAY P312.		P	111		
DATE TIME	CHAIN OF CUSTODY FROM (NAME)			NAME)	
	V.D. CONTROL BLANKS #	C-4313			



100 Ford Road, Suite C-5 Denville, New Jersey 07834 (201) 625-5558

April 12, 1985

Ms. Melinda Dower
N.J. Department of Environmental Protection
Bureau of Ground Water Discharge Permits
P.O. Box CN-029
Trenton, New Jersey 08625

.

RE: DOWTY RFL INDUSTRIES, BOONTON, NEW JERSEY NJPDES PERMIT NO. NJ0099104

Dear Ms. Dower:

Please find attached one copy of a letter to the Bureau of Hazardous Waste Classification and Manifest (BHWCM) with the results of the additional testing requested by their Ms. Sonya Shashowa. Please contact us should you receive the results of the classification from BHWCM.

Very truly yours,

GROUND/WATER TECHNOLOGY, INC.

Gary 1/ Cluen Project Manager

GJC:gw

Attachment

DECEIVED
APR 16 1985

Dept. Environmental Protection
Division Water Resources
Bureau Ground Water Discharge Francia



100 Ford Road, Suite C-5 Denville, New Jorsey 07834 (201) 625-5558

April 12, 1985

Ms. Sonya Shashowa
N.J. Department of Environmental Protection
Division of Waste Management
Bureau of Hazardous Waste Classification and Manifest
32 East Hanover Street
Trenton, New Jersey 08650

RE: DOWTY RFL INDUSTRIES, BOONTON, NEW JERSEY NJPDES PERMIT NO. NJ0099104

Dear Ms. Shashowa:

As per your request, soil, sludge and lagoon water samples at the RFL facility have been tested for the following additional analyses:

E.P. Toxicity: Sulphide Reactivity (all samples)

Flash Point (lagoon water samples only)

Laboratory reports on the above are attached for your review. Data has been previously submitted for the E.P. Toxicity: Cyanide Reactivity as indicated on the attached copies of the 2/15/85 analyses sheets.

The analyses on the soil and sludge were performed on the same samples which were retrieved on 2/15/85 and stored at the laboratory. The additional analyses on the lagoon water were performed on new samples collected 3/29/85 in the general vicinity of the locations of the 2/15/85 sampling.

Since we would like to initiate lagoon closure fairly soon, we would appreciate any effort on your part to process the classification quickly. Ms. Melinda Dower (Bureau of Ground Water Discharge Permits) is in charge of reviewing the lagoon closure proceedings by NJDEP; she can be contacted at (609) 292-0424 should you require her assistance.

リュ

Ms. Sonya Shashowa N.J. Department of Environmental Protection April 12, 1985 Page 2

We trust that this information is sufficient for your evaluation requirements. Should you require further information or clarification on the above, please contact us.

Very truly yours,

GROUND/WATER TECHNOLOGY, INC.

Gary J. Cluen

Project Manager

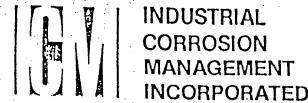
GJC:gw

Attachment

cc: Mr. Jack Slater - RFL

Ms. Melinda Dower -NJDEP

Mr. Steven Caretsky



1152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330

NJDEP Certified Drinking Water/Wastewater Laboratory ID #14116

REPORT	DATE:	April	5,	1985		
LAB #		39984				 ·

CLIENT: R F L INDUSTRIES				
SAMPLE SOURCE: WATER - Lagoon	Upgrade			
SAMPLE DATE: 3/29/85	_SAMPLED BY:	ICM-RK		AT LAB DATE: 3/29/85
Leachat	E P TOX REACTIVITY e Analysis (CF	SECTION	No. 98)	
	ta a			
Parameter		•	R	esult

Boiled @ 98 °C

Results reported in mg/kg dry weight basis.

INDUSTRIAL CORROSION MANAGEMENT, INC.

Vice President

ET/jmg LT=Less Than GT=Greater Than

APR 1 1 1985

17.7	INDUSTRIAL
	CORROSION
	MANAGEMENT
19.	INCORPORATED

State Certified Drinking Water/Wastewater Laboratory 10 4 14116

INCORPORATED 1157 ROUTE 10, RANDOLPH, NEW JERSEY 07889 201-584-0330	REPORT DATE:_ LAB # 38491	March 1, 1985	
SAMPLE SOURCE: RFL INDUSTRIES - BOONTON		er upgrade of Lagoon	
SAMPLE DATE: 2/15/85	TAKEN BY: ICM-RK	AT LAB DATE:	2/15/85 1:00
TREATED AS A LIQUID SAMPLE Leachate	EP TOXICITY TEST _Analysis_(CFR_Vol45.	_No98)	
PARAMETERS TESTED Inorganic Chemicals by AA	TEST RESULT as mg/l	Duplicate Result	MAXIMUM PERMISSIBLE Concentration as mg
Arsenic	0.02		5.0
Barium	LT 0.435	•	100.0
Cadmium	LT 0.007		1.0
Chromium	LT 0.014		5.0
Lead	LT 0.068 7.05		5.0
Mercury	LT 0.025 7.002		0.2
Selenium	LT 0.005	· .	1.0
Silver	LT 0.033 .05	* *	5.0
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	//////////////////////////////////////	//////////////////////////////////////
		Copper	0.090
Total: Cyanide:	<u>ET. 0.001</u>	Fluoride	1.45
		pH (units)	8.18
LT=Less than		TOX	0.020
All results reported in mg/l (ppm), unless ot	therwise stated.		

INDUSTRIAL CORROSION MANAGEMENT, INC.

Edwin Tichenor, Vice President



INDUSTRIAL CORROSION MANAGEMENT

NJDEP	Certi	fied	Drinking	Water.	/Wastewater
Labora	tory	ID #	14116		

April 5, 1985

CLIENT:	— <u> h</u> F	L INDUST	RIES						•		
				e of Lagoo	n			i.		,	
SAMPLE	DVIE:	2/15/85		_SAMPLED B		RK		AT LAB	DATE: 2	2/15/85	1:00
•	,	: : .	Leachat		TOXICITY ITY SECTION (CFR Vol		98)	Re-Acti	vated:_ <u></u>	3/28/8 <u>5</u> ·	
• •		•		· · · · .			•		•		
	P41-4me	eter_			•		Re	sult.			
	Tatat	Cyanide	· .						report tached)		•
	Tellal	Sulfide	(as S)				<u>L</u> T	0.165			
	\								:	•	
			•								
Results	LHIAL	ted in mg	/kg dry v	weight basi	is.						
					1 N	DUSTRIAL	CORROS	ION MANA	AGEMENT,	INC.	
*										•	

REPORT DATE:

APR 1 1 1985

17.7	INDUSTRIAL
	CORROSION
2	MANAGEMENT
	INCORPORATED

State Certified Drinking Water/Wastewater Laboratory ID # 14116

L'ALLI INCORPORATED	REPORT DATE:	march 1, 1905 .	
52 ROLTE 12. RANDOLP- NEW LERSEY 07865 201-584-3330	LAB # 38494		
SAMPLE SOURCE: RFL INDUSTRIES - BOONTON	SAMPLE ID: SLU	IDGE UPGRADE OF LAGOON	
SAMPLE DATE: 2/15/85 TAKEN	BY: ICM-RK	AT LAB DATE:	2/15/85 1:00
	OXICITY TEST s (CFR Vol. 45.	_No98)	
PARAMETERS TESTED Inorganic Chemicals by AA	TEST RESULT _as mg/l	Duplicate Result	MAXIMUM PERMISSIBLE Concentration as mg/l
Arsenic	LT 0.01		5.0
Barium	LT 4.35	LT 0.348	100.0
Cadmium	LT 0.007	LT 0.006	1.0
Chromium	LT 0.014	LT 0.015	5.0
Lead	0.466	0.500	5.0
	LT 0.025		0.2
Mertury	LT 0.005		1.0
Selenium	LT 0.033		5.0
Silver	<u> </u>	///////////////////////////////////////	//////////////////////////////////////
ANALYSIS PERFORMED ON SOLID SAMPLE		Copper	<u>26,395</u>
otal Cyanide	0-722	Fluoride	875
		pH (units)	7.63
_T=Less than		TOX	0.746
Solid sample results reported in mg/kg dry weight basis	5 •		

INDUSTRIAL CORROSION MANAGEMENT, INC.

Edwin Tichenor, Vice President



INDUSTRIAL CORROSION MANAGEMENT INCORPORATED

NJDEP	Certi	fled	Drinking	Water/Wastewat	
Labora	atory	10 #1	4116	TO COLY HUS LEMO!	ler

April 5, 1985

CLIENT	RFL INDUSTRIES				
	SOURCE: Dirt Up Grade Lagoon				·
	DATE: 2/15/85 SAMPLED BY: ICM-	RK	AT LAB DATE:	2/15/85	1.00
	E P TOXICITY REACTIVITY SECTION Leachate Analysis (CFR 4.1)	ON.	Re-Activated:		
	Leachate Analysis (CFR Vol	• 45, No. 98)			
	Parameter Total Cyanide	<u>R</u>	esult .		•
	Total Sulfide (as S)	Р	reviously report (see attached)	ted	
Results	reported in mg/kg dry weight basis.		0.077		
	IND	USTRIAL CORROS	ION MANAGEMENT,	INC.	
					•
ET/jmg LT=Less	Edw Than Vice	in Tichenor President			

REPORT DATE:

APR 1 1 1985

. WATER TECHNOLOGY INC.

State Certified Drinking Water/Wastewater Laboratory ID # 14116

MANAGEMENT INCORPORATED 1152 ROLTE 10. RANDOLP-, NEW JERSET 07869 201-584-3330	REPORT DATE LAB # <u>38497</u>	: March 1, 1985		
SAMPLE SOURCE: RFL INDUSTRIES - BOONTON	SAMPLE ID:	DIRT UPGRADE OF LAG	OON	•.
SAMPLE DATE: 2/15/85 TAKE	N BY: ICM-RK	AT LAB DATE:	2/15/85 1:00	
	TOXICITY TEST	5No98)		
PARAMETERS TESTED Inorganic Chemicals by AA	TEST RESULT as mg/l	Duplicate Result	MAXIMUM PERMISSI: Concentration as	_
Arsenic	0.02		5.0	
Barium	LT 0.435	LT 0.348	100.0	
Cadmium	LT 0.007	LT 0.006	1.0	
Chromium	LT 0.014	LT 0.015	5.0	•
Lead	LT 0.068	LT 0.063	5.0	
Hercury	LT 0.025		0.2	
Selenium	LT 0.005	•	1.0	14
Silver	LT 0.033		5.0	
	,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		//////////////////////////////////////	/ .esul
ANALYSIS PERFORMED ON SOLID SAMPLE		Copper	108	٠
alotala Cyani de	担成0.042	Fluoride	274	
		pH (units)	6.59	
		TOX	0.020	
LT=Less than it will be a second of the seco				

Solid sample results reported in mg/kg dry weight basis.

INDUSTRIAL CORROSION MANAGEMENT, INC.



INDUSTRIAL CORROSION MANAGEMENT INCORPORATED

NJDEP Certified Drinking Water/Wastewater Laboratory ID #14116

MANAGEMENT REPORT DATE: April 5, 1985
1152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330
CLIENT: R F L INDUSTRIES
SAMPLE SOURCE: WATER - Lagoon Middle
SAMPLE DATE: 3/29/85 SAMPLED BY: ISH BY:
E P TOXICITY REACTIVITY SECTION Leachate Analysis (CFR Vol. 45, No. 98)
Parameter Result Total Cyanide
Total Sulfide (as S) (see attached)
Flash Point (Pensky-Marten Closed Cup Method) GT 99 °C
Boiled @ 99°C
Results reported in mg/kg dry weight basis.
INDUSTRIAL CORROSION MANAGEMENT, INC.
ET/jmg LT=Less Than ST=Greater Than Vice President



State Certified Drinking Water/Wastewater Laboratory ID # 14116 0

I L' J I I I INCORPORATED 1152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330	REPORT DATE: March 1, 1985	
1152 MOCIE 10, MANDOCTM, NEW JENSEY 0/869 (01-364-0130)	LAB # 38492	
SAMPLE SOURCE: RFL INDUSTRIES - BOONTON	SAMPLE ID: Water middle of Lagoon	
SAMPLE DATE: 2/15/85 TAKE	N BY: ICM-RK AT LAB DATE:	2/15/85 1:00
TREATED AS A LIQUID SAMPLE EP	TOXICITY TEST	
_ reachate Whalks	is_{CFR_Vol45,_No98}	
PARAMETERS TESTED Inorganic Chemicals by AA	TEST RESULT Duplicate as mg/l Result	MAXIMUM PERMISSIBLE Concentration as mq/1
Arsenic	0.05 .05	5.0
Barium	LT 0.435	100.0
Cadmium	LT 0.007	1.0
Chromium	<u>LT 0.014</u>	5.0
Lead	LT 0:068 4 .05	5.0
Mercury	.002	0.2
Selenium	0.008	1.0
Silver	LT 0.033	5.0
		//////////////////////////////////////
	Copper	LT 0.051
Total Cyanade	Fluoride	1.20
	pH (units)	8.54
LT=Less than	` TOX	0.010
Results reported in mg/l (ppm), unless otherwise state	ed.	

INDUSTRIAL CORROSION MANAGEMENT, INC.

Edwin Tichenor, Vice President

INDUSTRIAL CORROSION MANAGEMENT INCORPORATED

NJDEP	Certi	fled	Drink	ing	Water/V	las Lew	ater
	tory						

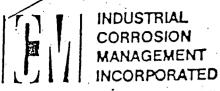
April 5, 1985

38495

IS2 ROUTE 1	O, RANDOLPH, NEW JE	RSEY 07869 201-58	34-0330				· .
CLIENT:	RFLIND	USTRIES	·		· 		
SAMPLE	SOURCE: S1	udge Middle	of Lagoon				
SAMPLE	DATE: 2/15	5/85	SAMPLED BY:_	ICM-RK		AT LAB DAT	E: 2/15/85 1:
		Leacha	E P TO REACTIVITY te Analysis ((OXICITY / SECTION CFR_Vol. 45,	, No. 98)	Re-Activat	ed: <u>3/28/85</u>
	Parameter				<u> </u>	<u>Result</u>	
	Total Cyani	de			F	Previously re (see attac	
	Total Sulfi	de (as S) -			<u>L</u>	T 0.393	
lesuits	reported in	mg/kg dry i	weight basis.				
				INDUSTI	RIAL CORRO	OSION MANAGEN	MENT, INC.
T/jmg T=Less	Than				Tichenor resident		

REPORT DATE:_

LAB #____



Solid sample results reported in mg/kg dry weight basis.

State Certified Drinking Water/Wastewater Laboratory ID # 1-116

INCORPORATED	REPORT DATE:	March 1, 1985		· · · · · · · · · · · · · · · · · · ·
1152 ROLTE IC RANDOLPH NEW JERSEY 07869 201-584-0336	LAB # 38495	<u> </u>		· · · · · · · · · · · · · · · · · · ·
SAMPLE SOURCE: RFL INDUSTRIES - BOONTON	SAMPLE ID:	SLUDGE MIDDLE OF	LAGOON	• • • • • • • • • • • • • • • • • • • •
	KEN BY: ICM-RK	AT LAB DAT	TE: 2/15/85 1:00	
	P TOXICITY TEST	. No. 28)		
PARAMETERS TESTED Inorganic Chemicals by AA	TEST RESULT as mg/1	Duplicate Result	MAXIMUM PERI Concentration	
Arsenic	0.06	•	5.0	
Barium	2.61	2.52	100.0	
Cadmium	0.023	0.026	1.0	
Chromium	0.031		5.0	•
Lead	0.190		5.0	
Mercury	LT 0.025		0.2	
Selenium	0.007		1.0	
Silver	- LT 0.033		5.0	
	///// ////////////////////////////////		//////////////////////////////////////	///// Dup.Rasu
ANALYSIS PERFORMED ON SOLID SAMPLE		Copper	<u>5,896</u>	5,057
Actal Cyanide	- 63.768	Fluoride	4,913	· ·
		pH (units)	8.76	
LT=Less than		TOX	0.040	•

INDUSTRIAL CORROSION MANAGEMENT, INC.

Edwin Tichenar Vice President

INDUSTRIAL CORROSION MANAGEMENT

NJDEP Cer	tified	Drinking	Water/Wastewater	
Laborator	y 1D #	14116		

REPORT DATE: April 5, 1985

L A R R I INCORPORATED	LAB #38498
152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330	
CLIENT: R F L INDUSTRIES	
SAMPLE SOURCE: Dirt Middle of Lagoor	n
SAMPLE DATE: 2/15/85 SAMPLED	D BY: ICM-RK AT LAB DATE: 2/15/85
REACT	Re-Activated: 3/28/85 TIVITY SECTION Sis (CFR Vol. 45, No. 98)
<u>Parameter</u>	Result
Total Cyanide	Previously reported (see attached)
Total Sulfide (as S)	LT 0.085
esults reported in mg/kg dry weight ba	sis.
	INDUSTRIAL CORROSION MANAGEMENT, INC.
T/jmg T=Less Than	Edwin Tichenor Vice President



SAMPLE DATE: 2/15/85

PARAMETERS TESTED Inorganic Chemicals by AA

SAMPLE SOURCE: RFL INDUSTRIES - BOONTON

	State Certified	Drinking Water/Wastewat	er Laboratory ID	4 1-1
	REPORT DATE:_	March 1, 1985		J.
	LAB # 38498			· · · · · · · · · · · · · · · · · · ·
	SAMPLE ID:	DIRT MIDDLE OF LAGOON		···········
TAKEN	BY: ICM-RK	AT LAB DATE:		····
EP T	OXICITY TEST s_{CFR_Vol45.	_Nō: _38)		
	TEST RESULT as mg/1	Duplicate Result	MAXIMUM PERM Concentration	
	0.03		5.0	
	LT 0.435	LT 0.348	100.0	
	LT 0.007	LT 0.006	1.0	
	LT 0.014	LT 0.015	5.0	•
_,	LT 0.068	LT 0.063	5.0	
	LT 0.025		0.2	
	LT 0.005		1.0	
	LT 0.033		5.0	.1
/////		///////////////////////////////////////	//////////////////////////////////////	//// up.Rasult
		Copper	13592	
	Service Designation	: []rida	(1)98¥ 9	

ANALYSIS PERFORMED ON SOLID SAMPLE

alotalatyanide.

Arsenic Barium Cadmium Chromium

Lead Hercury Selenium Silver

7.42 0.010

LT=Less than

Solid sample results reported in mg/kg dry weight basis.

INDUSTRIAL CORROSION MANAGEMENT, INC.

Edwin Tichenor.

INDUSTRIAL CORROSION MANAGEMENT INCORPORATED

1152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330

NUDER Certified Drinking Water/Wastewater Laboratory 1D #14116

REPORT DATE:_	Apr11 5, 1985	
LAB //	39986	

CLIENT: R F L INDUSTRIES			
SAMPLE SOURCE: WATER - Lago	on Downgrade		
SAMPLE DATE: 3/29/85	SAMPLED BY:	ICM-RK	AT LAB DATE: 3/29/85
•	ЕРТОХ	ICITY	

REACTIVITY SECTION
Leachate Analysis (CFR Vol. 45, No. 98)

Parameter	Result .
Total Cyanide	Previously reported (see attached)
Total Sulfide (as S)	LT 0.005
Flash Point (Pensky-Marten Closed Cup Method)	G <u>T 98</u> °C
Boiled @	98_°C

Results reported in mg/kg dry weight basis.

INDUSTRIAL CORROSION MANAGEMENT, INC.

Edwin Tichenor Vice President

ET/jmg LT=Less Than GT=Greater Than



State Certified Drinking Water/Wastewater Laboratory 10 1

SE ROLITE 10, RANDOLPH, NEW JERSEY 07869 201-584-7330	. ŘEPORT DATE:_	March 1, 1985	
SZ ROUTE ID. RANDOLPH, NEW JEKSET 07889 201-384-3330	LAB #38493		
SAMPLE SOURCE: RFL INDUSTRIES - BOONTON	SAMPLE ID:	Water Downgrade of Lac	ioon
SAMPLE DATE: 2/15/85	TAKEN BY: ICM-RK	AT LAB DATE:	2/15/85 1:00
TREATED AS A LIQUID SAMPLE Leachate	EP TOXICITY TEST Analysis (CFR Vol. 45.	_No28)	
PARAMETERS TESTED Inorganic Chemicals by AA	TEST RESULT as mg/1	Duplicate Result	MAXIMUM PERMISSIBLE Concentration as mg/l
Arsenic	0.01		5.0
Barium	LT 0.435		100.0
Cadmium	LT 0.007	<i>y*</i> **	1.0
Chromium	LT 0.014	,	5.0
Lead	СТ 0.068	•	5.0
Mercury	LT30.025		0.2
Selenium	LT 0.005		1.0
Silver	LT 0.033		5.0
		///////////////////////////////////////	//////////////////////////////////////
		Copper	0.090
-Total=Cyanide:	METEO:001322	Fluoride	\$3:30 \$
	Bearing and a series	pH (units)	8.53
	•	TOX	0.030
LT≈Less than			
Results reported in mg/l (ppm), unless otherw	ise stated.		•

INDUSTRIAL CORROSION MANAGEMENT, INC.

Edwin Tichenor, Vice President

INDUSTRIAL CORROSION MANAGEMENT

NJDEP	Certl	flee	d Drinki	ng	Water/Wastewater	
Labora	atory	10 /	#14116	_		

April 5, 1985

INCORPORATED LAB	# 38496
1152 ROUTE 10, RANDOLPH, NEW JERSEY 07869 201-584-0330	
CLIENT: R F L INDUSTRIES	
SAMPLE SOURCE: Sludge Down Grade	
SAMPLE DATE: 2/15/85 SAMPLED BY:	CM-RK AT LAB DATE: 2/15/85 1:00
E P TOXIO REACTIVITY SI Leachate Analysis (CFR	Re-Activated: 3/28/85
<u>Parameter</u>	<u>Result</u>
Total Cyanide	
Total Sulfide (as S)	0.534
Results reported in mg/kg dry weight basis.	
	INDUSTRIAL CORROSION MANAGEMENT, INC.
ET/jmg LT=Less Than	Edwin Tichenor Vice President

REPORT DATE:

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	INCORPORATED
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State Certified Drinking Water/Wastewater Laboratory 10 # 14194

INCORPORATED SE ACUTE 1C RUNDOLPH, NEW JERSET 07866 201-584-3330					
SAMPLE SOURCE: RFL INDUSTRIES - BOONTON	SAMPLE ID:				
	EN BY: ICM-RK	AT LAB DATE:	2/15/85 1:00		
EP	TOXICITY TEST	No38)			
PARAMETERS TESTED Inorganic Chemicals by AA	TEST RESULT _as mg/l	Duplicate Result	MAXIMUM PERMISSIBLE Concentration as mg/l		
Arsenic	- 0.04		5.0		
Barium	- 0.870	0.957	100.0		
Cadmium	- 0.027	0.023	1.0		
Chromium	- 0.028	0.031	5.0		
Lead	0.284	0.256	5.0		
Mercury	- LT 0.025		0.2		
Selenium	0.008		1.0		
Silver	- LT 0.033	•	5.0		
//////////////////////////////////////	//////////////////////////////////////		/////////////////////////// Result Dup.Resul		
ANALYSIS PERFORMED ON SOLID SAMPLE		Copper	40,290		
Votal Cyanide	LT 0.288	Fluoride	796		
		pH (units)	6.87		
		TOX	<u>0.2</u> 30		
LT*Less than	•				

INDUSTRIAL CORROSION MANAGEMENT, INC.

Edwin Tichenor, Vice President



INDUSTRIAL CORROSION MANAGEMENT INCORPORATED

NJDEP	Certl	fied	Drinking	Water/Wastewa	əter
Labora	tory	10 #1	4116		

REPORT DATE: April 5, 1985

38499

LAB #_____

152 ROUTE 1	O, RANDOLPH, NEV	W JERSEY 0786	9 201-584-0330	·				
CLIENT	RFL	INDUSTRIE	ES					• .
SAMPLE	SOURCE:	Dirt Do	wn Grade					
SAMPLE	DATE:	/15/85	SAM	PLED BY:	ICM-RK		AT LAB DATE:	2/15/8
		L.		E P TOX EACTIVITY alysis (CF		No. 98)	Re-∧ctivated	: 3/28/8
÷	Parameter		·	· ·		<u>n</u>	lesult_	
	Total Cya	nide				P	reviously repo (see attache	
	Total Sul	fide (as	s)				T 0.086	
			, , , , , , , , , , , , , , , , , , ,					
esults	reported	in mg/kg	dry weigh	t basis.				
					INDUSTR	IAL CORRO	SION MANAGEMEN	T, INC.
					·			
T/jmg T=Less	Than			· · · · · ·	Edwin T Vice Pr			

17.7	INDUSTRIAL
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	INCORPORATED
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Solid sample results reported in mg/kg dry weight basis.

State Certified Drinking Water/Wastewater Laboratory 10 / 1416

INCORPORATED SE POLITE IC PLANDOLPH, NEW JERSEY 07969 201-584-3330	REPORT DATE:	March 1, 1985	
SAMPLE SOURCE: RFL INDUSTRIES - BOONTON	SAMPLE ID: D	irt Downgrade of Lagoon	
SAMPLE DATE: 2/15/85 TAKEN	BY: ICM-RK	AT LAB DATE:	2/15/85 1:00
	OXICITY TEST	No 58)	
PARAMETERS TESTED Inorganic Chemicals by AA	TEST RESULT as mg/l	Duplicate Result	MAXIMUM PERMISSIBLE Concentration as mg/1
Arsenic	LT 0.01		5.0
Barium	LT 0.435	LT 0.348	100.0
Cadmium	LT 0.007	LT 0.006	1.0
Chromium	LT 0.014	LT 0.015	5.0
and the second s	LT 0.068	LT 0.063	5.0
Lead	LT 0.025		0.2
Mercury	LT 0.005		1.0
Silver	LT 0.033		5.0
//////////////////////////////////////	//////////////////////////////////////	///////////////////////////////////////	//////////////////////////////////////
ANALYSIS PERFORMED ON SOLID SAMPLE		Copper	584
Total Cyanide	0.055	Fluoride	165
	•	pH (units)	6.30
	-	TOX	0.020
LT=Less than			

INDUSTRIAL CORROSION MANAGEMENT, INC.

Edwin Tichenor, Vice President

CLOSURE PLAN
RFL INDUSTRIES, INC.
NJ 0099104



GROUND/WATER TECHNOLOGY, INC.



GROUND-WATER TECHNOLOGY INC.
100 FORD RD., SUITE C-5
DENVILLE, NEW JERSEY 07834

I. PLAN PURPOSE AND ORGANIZATION:

In accordance with the Resource Conservation and Recovery Act (RCRA) of 1976, 40 CFR, Part 264, Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities, Subparts G and K, and State of New Jersey, Department of Environmental Protection, Hazardous Waste Regulations (7:26-9.8), (7:26-11.3), and (7:14A-6.5 [d] 6), the following Closure Plan is being implemented to ensure:

- 1. That the need for further maintenance is minimized.
- 2. That the post-closure escape of hazardous waste, hazardous waste constituents, leachate, contaminated rainfall, or waste decomposition products to the groundwater or surface waters or the atmosphere is controlled, minimized, or eliminated to the extent necessary to protect human health and the environment.

This Closure Plan is based upon a state-of-the-art assessment of the potential risk to public health and environment posed by sudden or planned abandonment of the subject facility. The major factors entering into assessment of the risk posed by closure of a hazardous waste management facility relate to characteristics of:

- 1. The hazardous waste itself.
- 2. The environmental setting.
- 3. The means of treatment, storage and/or disposal.
- 4. The environmental pathways by which hazardous waste constituents may travel.
- 5. The human and ecological resources which could be impacted.

The Closure Plan contained in the following pages is divided into three (3) sections: General Facility Description, Lagoon Closure, and Closure Cost Estimate.

II. GENERAL FACILITY DESCRIPTION:

RFL Industries, Inc. is a diversified electronic components manufacturer for the communications industry. RFL Industries, Inc., is a hazardous waste generator and treater/disposer with EPA I.D. No. NJ D002156677. The facility encompasses approximately 17 acres in the Township of Boonton, Morris County, New Jersey. The hazardous waste treatment/dispsal facility encompasses approximately 5,000 square feet. The facility is owned and operated by RFL Industries, Inc., (Dowty RFL Industires, Inc., Powerville Road, Boonton, New Jersey 07005; 201-334-3100). A site plan of the facility is provided on Figure 1, Appendix A.

Waste Types and Characteristics - Industrial waste waters discharged to the infiltration-percolation lagoon were generated from the manufacture of printed circuit boards and the chemical treatment of aluminum and steel prior to painting with water based acrylic paints. These operations resulted in the discharge of approximately 3,000 gpd of hazardous wastewater until December 1980, when the entire PC board manufacturing operation was suspended. From December 1980 until July 1983, approximately 100 gpd of hazardous wastewater from the remaining operations were discharged to the lagoon. The specific wastes discharged to the lagoon and their characteristics are listed on Table 1.

<u>Waste Quantities</u> - There are no records which would indicate the quantities of specific wastes disposed of via the wastewater discharge during the operating life of the facility.

Hazardous Waste Treatment/Disposal Practices - The hazardous waste treatment/disposal operation at the facility consists of one infiltration-percolation lagoon equipped with a spray aerator. The lagoon is located in the southeast section of the facility approximately 300 feet southwest of Building No. 12 (Figure 1). The lagoon is triangular in shape with perimeter dimensions of approximately 120 ft. x 80 ft. x 100 ft. with a maximum depth of approximately 8 feet. Constructed in 1972, the lagoon was formed by excavating to a depth of approximately 2 feet and forming the dike walls with the excavated materials.

The installation of a wastewater treatment/recycle system has enabled RFL Industries, Inc. to remove the infiltration-percolation lagoon from service on July 1, 1983.

WASTE TYPES AND CHARACTERISTICS

Hazardous Waste No.	Waste Type	Waste Characteristic
U228	Trichloroethylene	Toxic
U226	1,1,1 - Trichloroethane	Toxic
u077 .	1,2 - Dichloroethane	Toxic
U 07 9	1,1 - Dichloroethylene	Toxic
U078	Toluene	Toxic
U220	Methylene Chloride	Toxic
U210	Tetrachloroethylene	Toxic
р008	Lead	Toxic
D007	Chromium	Toxic
D006	Cadmium	Toxic
P030	Cyanides	Toxic

III. INFILTRATION-PERCOLATION LAGOON CLOSURE:

The initial procedure for closing the Infiltration-Percolation Lagoon will be to submit the closure plan to the EPA Regional Administrator and State DEP at least 180 days prior to the closure date.

The overall closure approach will be to remove from the impoundment:

- All standing liquids.
- 2. Wastes and waste residues.
- 3. Underlying and surrounding contaminated soils.

Closure activities will be conducted by contract personnel. During closure, all contaminated liquids, sludges, and solids will be transported off-site by a licensed hazardous waste hauler to a permitted off-site hazardous waste treatment/storage/disposal facility.

- A. SPECIFIC CLOSURE PROCEDURES The procedures for testing and disposal of hazardous materials are as follows:
 - 1. Free Standing Liquids: There should not be any free standing liquid process wastes in the lagoon at the time of closure. However, there may be some free standing liquid resulting from the accumulation of precipitation. Free standing liquids will be analyzed to determine whether or not they are hazardous by RCRA definition. If the liquids are hazardous they will be removed and transported off-site by a licensed hazardous waste hauler to a permitted hazardous waste treatment/storage/disposal facility. If the liquids prove to be non-hazardous, they will be discharged to the ground via a spray system. In the event that the liquids do not meet the requirements for a discharge to the groundwater, they will be transported by a licensed septic hauler to a POTW for disposal.
 - Waste Residues: Waste residues (sediments) in the lagoon will be analyzed to determine if they are hazardous by RCRA definition. Three (3) core samples will be taken in the lagoon; one in the center and two towards the perifery. Sample locations are shown in Figure 2. The core samples will be analyzed to determine the depth of sediments and degree of hazard posed by the sediments. Because the primary concern with the sludge is heavy metal contamination, EP Toxicity Testing will be performed on each core sample. If the sediments prove to be EP toxic, they will be excavated and transported off-site by a licensed hazardous waste hauler to a permitted hazardous waste treatment/storage/disposal (TSD) facility. If EP toxicity tests prove negative, an EPA headspace analysis will be conducted in order to identify the presence of hazardous organic constituents. If the sediments

prove to be hazardous because of organic contamination, they will be excavated and transported off-site for disposal to a permitted hazardous waste treatment/storage/disposal (TSD) facility. If the sediments prove to be non-hazardous, they will be left in place.

3. Contaminated Soils: Core samples will be taken in the soils at the base of the lagoon and analyzed for contamination. The major concern at this facility is organic contamination as indicated by the presence of organic conpounds at elevated levels in the groundwater monitoring wells in the vicinity of the lagoon. Although heavy metal concentrations in the monitoring wells have consistently been below EPA Interim Primary Drinking Water Standards, analyses for both heavy metals and organic contamination will be conducted.

If the presence of organic contaminents are detected at hazardous levels, the Organic Vapor Analyzer (OVA) will be used to determine the extent of organic contamination in the soils. The entire impoundment will be scanned using the OVA as will the dikes and soils surrounding the impoundment. Soils will be excavated to a depth at which time the OVA analysis indicates that the level of contamination is within acceptable limits*. All contaminated soils that have been excavated will be transported by a licensed hazardous waste hauler to an off-site, permitted, TSD facility. If the soils prove to be non-hazardous, they will be left in place. (* Levels to be set by Ground/Water Technology, Inc., and the Division of Water Resources.)

- 4. Decontamination of Equipment and Structures: Decontamination of all pumps, piping, appurtenances associated with the lagoon, and equipment used to excavate hazardous materials will begin upon completion of all excavation activities. Decontamination procedures are listed in Table 2. Solutions used for the decontamination of equipment and structures will be collected and tested for hazardous constituents. Rinse solutions that are hazardous will be containerized and shipped by a licensed hazardous waste hauler to a permitted off-site hazardous waste TSD facility. Non-hazardous rinse solutions will be discharged to the sanitary waste disposal system on-site.
- 5. Final Closure Procedures: The final step in closing the lagoon will include backfilling the excavation with clean fill, covering the fill with 6 inches of clay, 6 inches of topsoil, grading to the natural contour of the site, and seeding to establish a vegetative cover.

A complete schedule of closure activities and their estimated time of completion is outlined in Table 3.

B. <u>ENVIRONMENTAL MONITORING DURING CLOSURE</u> - The monitoring systems that will be in operation during closure are outlined below:

V6

General Facility Decontamination Equipment Items and Methods

Equipment/ Structure

Decontamination/ Disposal Method

Backhoe

High Pressure Water Rinse

Front-End Loader

High Pressure Water Rinse

Dump Trucks*

High Pressure Water Rinse

Hoses and Portable Piping

Water Rinse

Fixed Inlet Structures

High Pressure Water Rinse

* Trucks will have wheels washed prior to exiting the facility parking lot during each trip.

Surface Impoundment Closure Procedures and Time Requirements

Clo	sure Step	Time Requirement
1.	Notify EPA Regional Administrator, State Officials of Closure (Submit Plan)	180 Days prior to Closure
2.	Sample and analyze and remaining liquids in the impoundment.*	3 Weeks
3.	Remove or stabilize any liquids in impoundment resulting from accumulated rainfall.	l Week
4.	Take sediment samples and analyze for EP toxicity.*	3 Weeks
5.	Take soil samples from soils underlying the impoundment and analyze for EP toxicity.*	3 Weeks
6.	Decontaminate impoundment piping and other associated appurtenances.	l Week ı
7.	Decontaminate equipment used to excavate contaminated soils.	1 Week
8.	Backfill Excavation.	2 Weeks
9.	Grade to natural elevation and revegetate.	2 Weeks

^{*} Completed - See Data Appendix A

- 1. Groundwater Monitoring: RFL Industries is presently completing the initiation of a full ground water quality assessment plan which has been developed in conjunction with the State of New Jersey, Division of Water Resources. The plan has been designed to enable RFL Industries to determine: (a) the rate and extent of migration of the hazardous waste or hazardous waste constituents in the groundwater; and (b) the concentrations of the hazardous waste constituents in the groundwater. The groundwater monitoring system consists of 4 monitoring wells, with 1 well located hydraulically upgradient and 3 wells located hydraulically downgradient of the lagoon. Samples will be collected quarterly until consistent improvement in groundwater quality is indicated. Sampling parameters are listed in Table 4.
- 2. Surface Water Monitoring: RFL Industries will continue to monitor surface water throughout the closure period according to the current monitoring schedule.
- 3. Air Quality Monitoring: There is no air quality monitoring conducted at RFL Industries. Because there will be no free liquids in the lagoon during closure and dust suppressents (i.e., water) will be used during excavations, no significant atmospheric contamination is expected.

Sampling Parameters

Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Trichlorofluoromethane 1,1-Dichloroethylene 1,1-Dichloroethane t-1,2-Dichloroethylene Chloroform Freon 113 1,2-Dichloroethane t-Butyl Methyl Ether 1,1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane 1,2-Dichloropropane c-1,3-Dichloropropene t-1,3-Dichloropropene TCE (Trichloroethylene)

1,1,2-Trichloroethane Dibromochloromethane Benzene Diisopropyl Ether 2-Chloroethylvinyl Ether Hexane Bromoform 1,1,2,2-Tetrachloroethane PCE (Tetrachloroethylene) Heptane Toluene Chlorobenzene Ethylbenzene Hexavalent Chromium (as Cr) Total Chromium (as Cr) Total Lead Total Nickel Fluoride Chloride Total Dissolved Solids Nitrate (as N) pH (units) Oil and Grease

IV. CLOSURE COST ESTIMATE

The estimated cost for closing the infiltration-percolation lagoon according to the plan outlined in Section III is \$ 9,760.00. The itemized costs for closure are listed in Table 5.

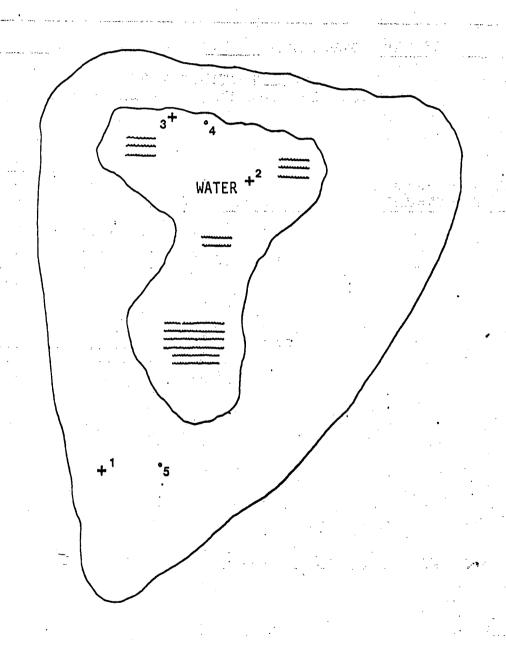
TABLE 5

Closure Cost Estimate

Closure Item	<u>Quantity</u>	Unit Cost	Total Cost
1. Sampling and analysis of liquids in the impoundment.	2 Samples	\$250.00	\$500.00
Removal of liquids from the impoundment.	25,900 Gal.	N/C*	N/C*
Stabilization of sludges in the impoundment.	60 Tons	\$20.00/ Ton	\$1,200.00
 Sampling and analysis of sediments and underlying soils. 	6 Samples	\$350.00	\$2,100.00
Decontamination of structures and equipment.	l Man-Day	\$10.00/hr.	\$160.00
6. Grading and Move- ment of dike materials.	. l Day	\$750.00	\$750.00
7. Clay.	100 cu. yards	\$15.00/ cu. yd.	\$1,500.00
8. Topsoil.	100 cubic yards	\$12.00/ cu. yd.	\$1,200.00
9. Revegetation.	4,800 sq. ft.	\$.20/sq. ft.	\$960.00
10. Engineering Supervision & Certification	5 Days	\$100/day	\$500.00
S	ub Total		\$8,870.00
10	0% Contingency		\$890.00
G	RAND TOTAL		. \$9,760.00

* Existing Equipment Available

Figure 2
Sediment and Soil Sampling Locations



- + Sediment
- Soil



State of New Tersey DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 32 E. Hanover St., CN 028, Trenton, N.J. 08625

DR. MARWAN M. SADAT, P.E. DIRECTOR

1 9 JAN 1984

LINO F. PEREIRA, P.E. DEPUTY DIRECTOR

Mr. Steven Caretsky
Senior Environmental Engineer
Groundwater Technology, Inc.
100 Ford Road
P.O. Box 99
Denville, NJ 07834

RE: Facility Status of RFL Industries, Inc., Boonton, New Jersey Facility EPA ID NO. NJD002156677

Dear Mr. Caretsky:

The Bureau of Hazardous Waste Engineering (the Bureau) has reviewed your correspondence pertaining to the above referenced facility and also reviewed the company's files. As a result of these reviews this Bureau has made the following determinations regarding RFL's current operating status under New Jersey Hazardous Waste Management Regulations:

- 1. RFL Industries, Inc. filed in its original RCRA Part A application for:
 - a. Containerized/drummed storage (SO1) hazardous waste activity at 1,650 gallons.
 - b. Impoundment treatment (TO2) hazardous waste activity at 3,500 gallons per day.
- 2. The SOI activity filed for is now inappropriate. As described in your letter of January 3, 1984 which you addressed to this Bureau, hazardous waste (chromium sludge) is accumulated in drums and disposed off-site within 90 days or less.
- 3. The TO2 activity filed for refers to an infiltration/percolation lagoon which was used for treatment/disposal of rinse waters (from steel and aluminum conversion coating operations) until July 1, 1983. A closure plan for this facility has been submitted to the Division of Water Resources. It is understood that DWR will review and supervise implementation of the Closure Plan.

As a result of conclusions previously made, the Bureau of Hazardous Waste Engineering will delist RFL's SOI process (no permit required for this activity) provided that the following requirements are complied with regarding handling of the chromium sludge:



It is the company's responsibility to operate within the conditions listed above. To operate a hazardous waste facility without prior approval from the DEP is a violation of the Solid Waste Management Act N.J.S.A. 13:1E-1 et seq.

If you have any questions, please contact Mr. Benjamin Esterman of my staff at (609) 984-4061.

Very truly yours,

Frank Coolick, Chief

Bureau of Hazardous Waste Engineering

EP14/ch c: John Trela, DWR

Joel Golumbek, USEPA



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

CN 029

TRENTON, NEW JERSEY 08625
Water Quality Management

MAR 0 7 1986

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

Mr. Jack Slater, Facilities Manager Dowty-RFL Industries, Inc. Powerville.Road Boonton, New Jersey 07005

Re: Lagoon Closure Certification/TSD Delisting NJPDES Permit No. NJ0099104

Dear Mr. Slater:

JOHN W. GASTON JR., P.E.

DIRECTOR

The Bureau of Ground Water Quality Management (BGWQM) has received and reviewed your closure certification submittals of December 27, 1985 and February 3, 1986. Based on your submittals, it appears that closure activities were performed in accordance with your aproved closure plan/NJPDES permit that became effective December 15, 1984. Additionally, inspections conducted by my staff on December 6, 1985 and December 20, 1985 also confirmed that closure activities were performed in accordance with the approved closure plan. The BGWQM hereby approves the lagoon closure certification for the TO2 hazardous waste activity that was signed by Joseph A. Turcotte, P.E. (NJ P.E. License No. 29410) on December 27, 1985.

It is also our understanding that Dowty-RFL's original RCRA Part A application listed the following activities:

- Container Storage (S01). This acitvity was formally delisted by the Division of Waste Management in a letter dated January 19, 1984 from Frank Coolick to Steven Caretsky of Ground/Water Technology. Recent inspections confirm that all container storage occurs for less than 90 days.
- Treatment Surface Impoundment (TO2). This activity (which is the subject of this letter) has now been closed in accordance with NJAC 7:26-1 et seq., NJAC 7:14A-1 et seq. and the approved closure plan.

In addition to the above-described closure certification approval, this letter provides written acknowledgement that there are no longer any Treatment, Storage or Disposal (TSD) activities at your facility.

ATTACHMENT _X_

Page 2
Dowty-RFL Industries,
Mr. Jack Slater

Due to the fact that the past year's ground water monitoring data shows no evidence of contamination, the BGWOM is changing the status of the monitoring program from an "alternate assessment" to a "detection" monitoring program. The requirements for the detection monitoring program shall be the same as those presently prescribed in your NJPDES-DGW permit. RFL shall perform quarterly ground water monitoring for a minimum four quarters (beginning with January 1986). If no significiant ground water contamination is found, RFL can then request that their NJPDES permit be terminated.

In summary, the Bureau acknowledges and appreciates the cooperation that RFL and Ground/Water Technology have provided toward closing all TSD activities at their Boonton facility. Also, RFL will no longer be subject to the minimum fee for NJPDES/IWMF facilities. If you have any further questions on any permit matters, please contact the new permit writer asigned to your case, Ms. Susan Dengler, at (609) 292-0424.

Sincerely,

John J. Trela, Ph.D., Chief Bureau of Ground Water Quality Mgt.

WQM153:cn

cc: Frank Coolick, DWM-BHWE
Greg Cunningham, DWR-Enforcement
Barry Tornick, USEPA-Permits Section
Kenna Amos, USEPA-Enforcement
Joel Golumbek, USEPA-Program Support
Debra Hammond, DWR-BPA

100 Ford Road Denville, New Jersey 07834 (201) 625-5558

December 27, 1985

HAND DELIVERY

Mr. John Trela, Chief Bureau of Ground Water Discharge Permits N.J. Department of Environmental Protection Box CN-029 Trenton, New Jersey 08625

Dear Mr. Trela:

SUBJECT: LAGOON CLOSURE CERTIFICATION

DOWTY RFL INDUSTRIES BOONTON, NEW JERSEY

NJPDES PERMIT NO. NJ0099104 EPA I.D. NO. NJD002156677 DECEIVED DEC31 1985

Dapt. Environmental Frotection
Division Water Resources
Bureau Ground Water Discharge Permiss

SUMMARY

During the period of December 2, 1985, through December 10, 1985, closure operations were undertaken at the RFL lagoon. Closure was performed by Chemical Disposal Services, Division of Krammer Chemical, Inc., of Clifton, New Jersey.

Freestanding liquids were removed from the lagoon and transported to the DuPont Company, Environmental Services, Chambers Works, Deepwater, New Jersey. Four licensed tankers transported a total of 15,500 gallons of liquid to this facility. Copies of manifests supporting this are attached.

All sludge, piping, pallets, concrete manhole sump, limestone gravel, and vegetation that were present in the lagoon were removed from the site and trucked to Wayne Disposal, Belleville, Michigan. Twenty-five licensed trucks transported a total of 500 tons of waste to this facility. Copies of shipping manifests are attached. When completed manifests are received from Wayne Disposal, copies will be forwarded to you.

As a result of this closure, Dowty RFL Industries no longer has TDS activities on its premises. They therefore request delisting as a TDS facility.



December 27, 1985 Page 2

Mr. John Trela, Chief Bureau of Ground Water Discharge Permits

CLOSURE ACTIVITIES

On-site activities began on December 2, 1985. Representatives of RFL, Ground/Water Technology (G/WT) and Chemical Disposal Services met to prepare test mixtures of cement, bentonite and sludge to determine the type and quantity of additives to be used for sludge stablization. As a result of testing, it was recommended that the primary drying agent be bentonite with small amounts of cement to be added to improve workability. For wet sludge as tested a mixture of one part cement to two parts bentonite to six parts sludge was found to be quite adequate. These ratios were to be field adjusted as necessary depending on the water content of the material.

Next, all the free-draining liquids were removed by placing the suction line of tanker trucks at the deepest portion of the lagoon. In all, 15,500 gallons of liquid were removed from the site. The remaining liquids which did not drain were stabilized together with the sludge as the bentonite and cement kiln dust were mixed in. In total, 84 tons of bentonite (type Slurry Ben 90 - American Colloid Company) and 20 tons of cement kiln dust (Keystone) were added to the sludge in the lagoon. A total of 500 tons of waste was removed from the site giving an average ratio of cement kiln dust: bentonite: and sludge of 1:5:25. It should be noted that a significant portion of the sludge was sufficiently drained to require little to no stabilizing efforts.

Mixing of the bentonite and cement kiln dust into the sludge was performed using a Hisley 1500 backhoe and a Caterpillar 955 front end loader. The sludge was scraped off the underlying material and placed into piles where the bentonite and cement kiln dust were spread and worked into the sludge with the machine buckets. Once sufficiently stabilized, the material was scraped off the bottom natural soils and was placed into lined dump trucks for transportation to and disposal at an out-of-state licensed hazardous landfill facility. The bottom natural soil was found to be clay over most of the area.

The inside surface of the containment dike was scraped and removed from the site with the wastes. The remainder of the dike was used to backfill the depression as the work proceeded. When all the sludge was scraped off the underlying soils in a particular area, the dike was used to backfill that area and it then served as a work platform for reaching further out into the lagoon.

When all waste materials were removed from the site the hole was backfilled using the remaining dike materials and by scraping the native soils in the vicinity around the lagoon to smooth out final contour grades. Grading was completed on December 10, 1985. The site will be covered with straw to protect it from erosion until it can be seeded in the Spring.

December 27, 1985 Page 3

Mr. John Trela, Chief Bureau of Ground Water Discharge Permits

CERTIFICATION

Closure activities at the Dowty RFL Industries' lagoon were completed in general compliance with the intent of the closure plan, NJPDES permit no. NJ0099104 provisions and the bid specifications dated July 25, 1985. The only exception to the above is that both liquid and solid waste were disposed at licensed hazardous waste facilities instead of non-hazardous waste facilities. This was done at RFL's request and for their own protection. As a result of this closure, no TDS activites are ongoing on-site and therefore RFL requests delisting as a TDS facility.

Very truly yours,

GROUND/WATER TECHNOLOGY, INC.

Joseph A. Turcotte, P.E. Executive Vice President

JAT:gw

Attachments: Manifests

cc: Ms. Melinda Dower

Mr. Jack Slater Mr. Marwan Sadat

Mr. Stanley Siegel

12/27/85

X3

100 Ford Road Denville, New Jersey 07834 (201) 625-5558



December 30, 1985

Dopt. Environmental Protection
Division Water Resources
Bureau Ground Water Discharge Permite

Mr. Stanley Siegel
U.S. Environmental Protection Agency
Air & Waste Managment Division
26 Federal Plaza - Room 1043
New York, New York 10278

Dear Mr. Siegel:

SUBJECT: DOWTY RFL INDUSTRIES, INC. - BOONTON, NEW JERSEY SURFACE IMPOUNDMENT - RCRA I.D. #NJD002156677

This letter is to respond to the information requested pursuant to RCRA Section 3007, 42 U.S.C. Section 6927, as per Attachment I of your letter of October 21, 1985, to RFL Industries, Inc. Response to requests nos. 1, 2 and 3 were provided in our letter of November 12, 1985, to you. This letter deals with request no. 4.

Request No. 4. Closure activities were undertaken during the period of December 2, through December 10, 1985. All freestanding waters in the lagoon were removed and transported to DuPont Company, Environmental Services, Chambers Works, Deepwater, New Jersey. All lagoon sludge, piping and miscellaneous materials were removed and transported to Wayne Disposal, Belleville, Michigan. A copy of the lagoon closure certification is attached for your information.

As a result of this lagoon closure, Dowty RFL Industries no longer has any ongoing TDS activities at this location and they have requested delisting as a TDS facility. In particular, we respond to your request no. 4 as follows:

- a. During the year prior to November 8, 1985, no hazardous waste was placed into the lagoon.
- b. The lagoon ceased receiving wastewater on July 1, 1983.
- c. No hazardous waste was placed into the lagoon between November 8, 1985, and December 31, 1985.

44

December 30, 1985 Page 2

Mr. Stanley Siegel U.S. Environmental Protection Agency

- d. All waste in the lagoon was removed during the period of December 2 through December 10, 1985. The closure of the lagoon has been completed as stated in the attached certification.
- e. Not applicable, the facility has completed closure requirements.

We trust that the information herein is sufficient response to request no. 4. Should additional information or clarification be required, please contact us.

Very truly yours,

GROUND/WATER TECHNOLOGY, INC.

Gary J. Cluen Project Manager

GJC:gw

Attachment: Lagoon Closure Certification

cc: Ms. Melinda Dower

Jang Oluen

Mr. Marwan Sadat Mr. Jack Slater



State of New Jersey Description of Environmental Protection in its invision of Waste Management CN 028, Trenton, NJ 08625 (12-pitch) typewriter.)



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(Form designed for use on elite (12-pitch) typewriter.).

Form Approved, OMB No. 2000-0404, Expires 7-31-80

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Form Approved. OMB No. 2000-0404. Expires 7-31-86

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	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are of packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government re-	dassified,
	Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically pr	3002(b)
	and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the env	Month Day Year
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State of New Jersey Department of Environmental Protection ision of Waste Management CN 028, Trenton, NJ 08625



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Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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EPA Form 8700-22 (Rev. 4-85)

To be mailed by Generatonto:

Michigan Df ... Box 30038

PR 5110 Rev. 4/85

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EPA Form 8700-22 (Rev. 4-85)

To be mailed by Generator to:

Michigan DNR Box 30038 Lansing, MI 48909 PR 5110 Rev. 4/85

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1969

Failure to file Is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

S-SOIL, PETROLEUM HYDROCARBONS, KILN DUST 15. Special Handling Instructions and Additional Information a) TECH-2079- WC# 1252 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and care in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically proof RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically proof RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically proof RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically proof RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically proof RCRA, I also certify that I have a program in place to reduce the world and to the degree I have determined to be economically proof RCRA, I also certification under Section. Date of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I also certification of RCRA, I als			INIE		Δ7ΔΩΓ	1()[]	[] . G	enerator	300517	NO.	_ Ma	nifest	1	2. Page	'' 1			n in th			
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Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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Failure to file is gunishable under section 299,548 MCL or Section 10 of Act 136, P.A. 1969.

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	4.	Generator's Phone (201) 334-3100		C. State Transporter's ID	NIDERS 711
		Transporter I Company Name	PLAIDIO[6] 4] 01 31 51 81 11 9	D. Transporter's Phone 2	15-261-2220
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11	9.	Designated Facility Name and Site Address 10	D. US EPA ID Number	G. State Facility's ID	
$\ $		WAYNE DISPOSAL			
П		49350 N. SERVICE DRIVE		H. Facility's Phone 313-697-7830	
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 G	11.	US DOT Description (including Proper Shipping Name, HM ID NUMBER).	Hazard Class, and No.	Total Un: Type Quantity ₩\rline{\chi}	it No.
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	15	5. Special Handling Instructions and Additional Informat a) TECH-2079- WC# 125	2		
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- 1		7. Transporter 1 Acknowledgement of Receipt of Mater	riais //m		Date
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EPA Form 8700-22 (Rev. 4-85)

To be mailed by Generator, to:

Menigan BNR Box 20038 PR 5110 Rev. 4/85

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Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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1979, as amended and Act 136, P.A. 1969.

Form Approved. OMB No. 2000-0404 Expires 7-31-86

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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			POWERVILLE RO		B. St	ate Generator	's ID			
	4.	Generator's Phone (201) 334-3100	BOONTON, N.J.		S	AME /		410	145	2
П	5.	Transporter 1 Company Name HORWITH TRUCKING	6. US EPAID N			tate Transporte				
	7.	Transporter 2 Company Name	[P A D 0 6 4 0 3 8. US EPAID N			ansporter's Pri			201-2	_
		· · · · · · · · · · · · · · · · · · ·			1	ansporter's Ph			- E.S.	-
	9.	Designated Facility Name and Site Address WAYNE DISPOSAL 49350 N. SERVICE DRIVE	10. , US EPA ID N	umber		tate Facility's	·>·		i i	
		BELLEVILLE, MI 48111	M 1 D 0 4 8 0 9	10161313	1	acility's Phone		Q.		-
	11.	. US DOT Description (including Proper Shipping No.		12.Cont			14.		aste	_
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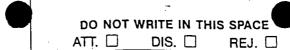
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1979, as amended and Act Too, MA. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OM8 No. 2000-0404 Expires 7-31-86

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EPA Form 8700-22 (Rev. 4-85)

To be mailed by Generator to:

Michigan DNR Box 30038 Lansing, ML48009

PR 5110 Rev. 4/85

DO NOT WRITE IN THIS SPACE

1979, as amended and Act 136, P.A. 1969,

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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EPA Form 8700-22 (Rev. 4-85)

To be mailed by Generator to:

Michigan DNR Box 30038

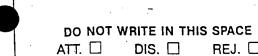
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Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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Form Approved. OMB No. 2000-0404 Expires 7-31-86

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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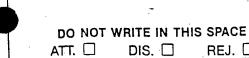
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Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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Seratorito:

Michigan DNR Box 30038

PR 5110



Dowty RFL Industries Inc.

Powerville Road Boonton, New Jersey 07005-0239 • Tel: (201) 334-3100 • TWX: 710-987-8352 • FAX NO.: (201) 334-3863

November 19, 1987

M.J.D.E.P. Division of Hazardous Waste Management 1259 Rt. 46 Parsippany, New Jersey 07826

Attention: Carolyn C. Seifried

Dear Carolyn:

Please find enclosed one copy of the Dowty RFL Industries Inc. revised contingency plan. I have sent copies to the local agencys with return receipt mail as per your suggestion.

Respectfully submitted,

Dowty RFL Industries Inc.

Jack E. Slater Facilities Manager NJD 002156677

EPA ID#: NUDCC2156677 _____ TELEPHONE NUMBER: 1, 334-3100

PRIMARY EMERGENCY COORDINATOR: JACK SLATER ADDRESS: 4 DURHAM RD., RCCKAWAY; NEW JERSEY 07866

TELEPHONE MUMBER: OFFICE: (201) 334-3100 EXT. 219

HOME: (201) 983-9457

RFL SYSTEM SPEED #: 6094

SECONDARY EMERGENCY COORDINATOR: BILL MCKEE

ADDRESS: POWERVILLE RD., BCONTON, NEW JERSEY 07005

TELEPHONE NUMBER: OFFICE: (201) 334-3100

HOME: (201) 263-0195

RFL SYSTEM SPEED:#: 6229

EMERGENCY PHONE NUMBERS

ORGANIZATION PRIMARY FIRE DEPARTMENT: BOONTON TOWNSHIP SECONDARY FIRE DEPARTMENT: RESPONSIBILITY OF BOONTON TWP.	RFL SYSTEM SPEED NUMBER #6002 FIRE CHIEF	TELEPHONE # (201) 334-2419
AMBULANCE SERVICE: ECONTON KIWANIS	#6003	(201) 299-7730
LCCAL POLICE DEPARTMENT: BOONTON TOWNSHIP LOCAL STATE POLICE: METCONG STATION COUNTY SHERIFFS COMMUNICATION CENTER:	#6002	(201) 334-2419 (201) 347-1000 (201) 455-1700
LCCAL HOSPITAL: ST. CLARES, DENVILLE HOSPITAL BURN UNIT: ST. BARNABAS, LIVINGSTON	#6005	(201) 625–6063 (201) 533–5000
DEP GROUND WATER MANAGEMENT EUREAU: DEP SOLID WASTE ADMINISTRATION: STATE EMERGENCY RESPONSE NUMBER:		(609) 292-0424 (609) 292-7645 (201) 548-8730
U.S. EPA REGION II OFFICE:		(212) 264 - 2525 (609) 989 - 2276

HOSPITAL EMERGENCY INFORMATION: ALL VICTIMS SHOULD BE TRANSPORTED BY BOONTON KIWANIS AMBULANCE, IF POSSIBLE, TO ST. CLARES HOSPITAL IN DENVILLE. IF VICTIM IS BADLY BURNED, MEDICAL PERSONNEL SHALL MAKE THE DECISION AS TO WHETHER THE BURN UNIT AT ST. BARNABAS IS MOST APPROPRIATE.

JOB DESCRIPTION/FUNCTIONS OF EMERGENCY PERSONNEL:

PRIMARY EMERGENCY COORDINATOR: JACK SLATER
FUNCTION: COORDINATE THE EFFORTS OF ALL EMERGENCY PERSONNEL ON THE SCENE OF A SPILL OR
FIRE. PROVIDE TECHNICAL ADVICE AND SUPPORT TO THE PROPER AUTHORITIES AT THE POINT OF
THE INCIDENT.

SECONDARY EMERGENCY COORDINATOR: BILL McKEE
ASSIST PRIMARY COORDINATOR AND ASSUME RESPONSIBILITIES IN THE EVENT OF HIS ABSENCE.
ASSIST IN THE CLEAN UP OR CONTAINMENT OF LEAKS OR SPILLS.

I HAZARDOUS WASTE BY-PRODUCTS <u>MATERIAL</u>	LOCATION	OTY.	<u>1.D. #</u>	WASTE #
WASTE FLAMMABLE LIQUID M.C.SWASTE MERCURY METTALIC ORM-B	SHED	0-55 GAL. 0-10 PDS.	UN1993 NA2E09	DOC1 DC09
II HAZARDOUS PROCESS CHEMICALS <u>MATERIAL</u>	LOCATION	<u>cty.</u>	DOT I.D. #	DCT (*) GUIDE #
LAQUER THINNER VINYL WASHACETONE	SHED SHED SHED/BLD.		1245 1090	26 26 1 2
GENESOLV————————————————————————————————————	& BLD. 14 SHED SHED SHED/	O-55 GAL. O-55 GAL. O-40 GAL.	1897 1095 1219	55 26 26

- SHED/

BLD.14

BLD.14

SHED/

BLD.14

60

26

1760

0-40 CAL.

0-40 GAL.

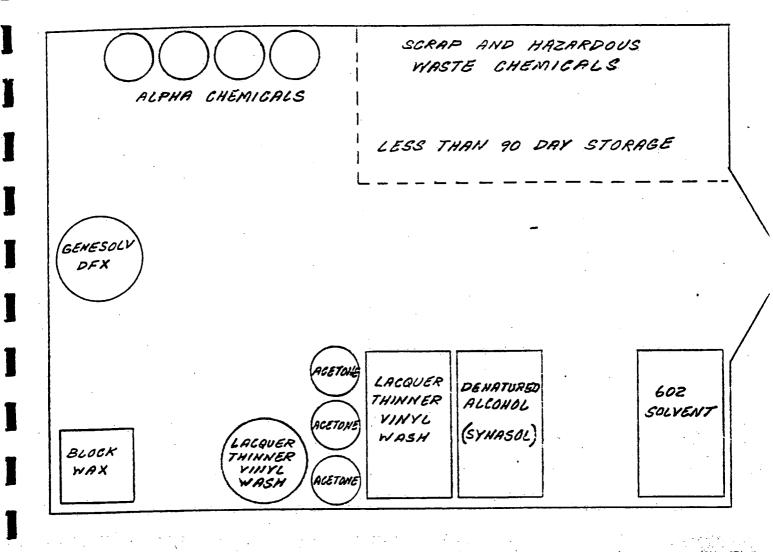
ALPHA 450F THINNER----

ALPHA 2444 RIMSE AID--

ALPHA 850-25 SCLDER FLUX----

^(*) SEE ATTACHED DCT EMERGENCY HANDLING PROCEDURES.

PROCESS AND WASTE CHEMICAL STORAGE SHED



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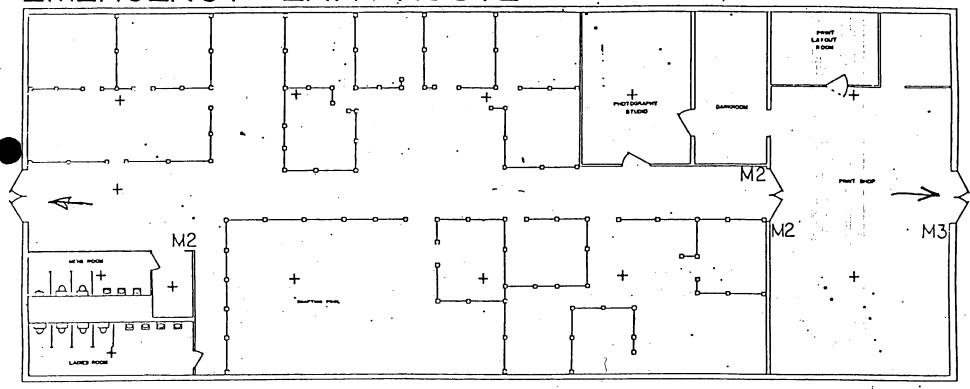
GENESOLV MACHINE ď FLOW-SOLDER PROPERTY LINE /3 7 GENESOLY MACHINE г 2A CHEMICAL -2 SHIPPING / RECEIVING EMERGENCY SPILL MAINTENANCE 6 12 FIRE POND

AA6

	-		
SAFETY ITEM	<u>rsr</u>	LCCATIC	CHANTITY
(FIRE DATINGUISHERS			
CARPON DICKIDE	ELECTRICAL/CIL	#2 FLDG. 6	2
DRY CHEMICAL	EVERYTHING	M3 ELDG. 6	ı
DRY CHEMICAL	EVERYTHING	M3 BLDG. 8	1
CAREON DIOXIDE	ELECTRICAL/CIL	M2 BLDG. 12	3
DRY CHEMICAL	EVERYTHING	M3 BLDG. 12	ı
CAREON DIOXIDE	ELECTRICAL/OIL	M2 BLDG. 5	ı
DRY CHEMICAL	EVERYTHING	M3 BLDG. 5	2
CAPECT DIOXIDE	ELECTRICAL/OIL	M2 BLDG. 3	1
PPESSURIZED WATER	PAPER	M1 BLDG. 3	1
CAREON DIOXIDE	ELECTRICAL/OIL	M2 BLDG. 2	2
DRY CHEMICAL	EVERYTHING	M3 BLDG. 2	2
CAFBO! DIOXIDE	ELECTRICAL/OIL	M2 BLDG. 10	1
(CTHER EQUIPMENT)			
EMERGENCY EYE WASH		ELDG. 6	1
EMERGENCY SHOWER		_ PLDG. 6	1
SAFETY GOGGLES	•	ELDG. 6	6 PAIR
OVER THE SHOE BOOTS		BLDG. 6	1 PAIR
DUST-ACID RESPIRATORS		BLDG. 6	1
PROTECTIVE GLOVES		ELDG. 6	2 PAIR
SAFETY COVERALLS		ELDG. 6	. 1 .
FACE SHIELD		ELDG. 6	2

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+ ADT SENSOR M2 CO₂ FIRE EXTINGUISHER M3 DRY CHEM. BLD-12 OFFICE LAYOUT

4.1

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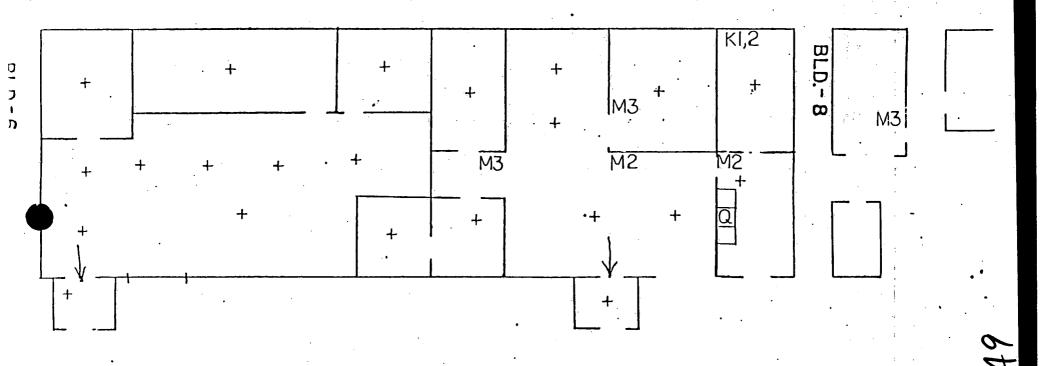
+ ADT SENSORS

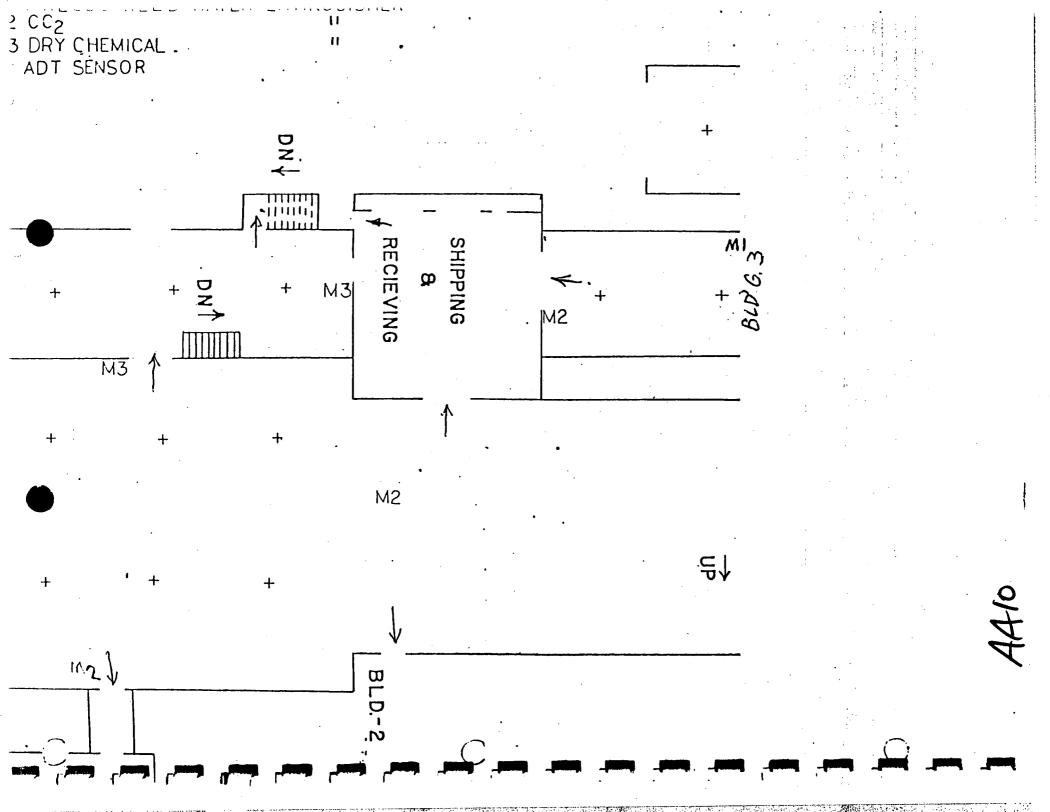
M2 CO₂ FIRE EXTINGUISHER

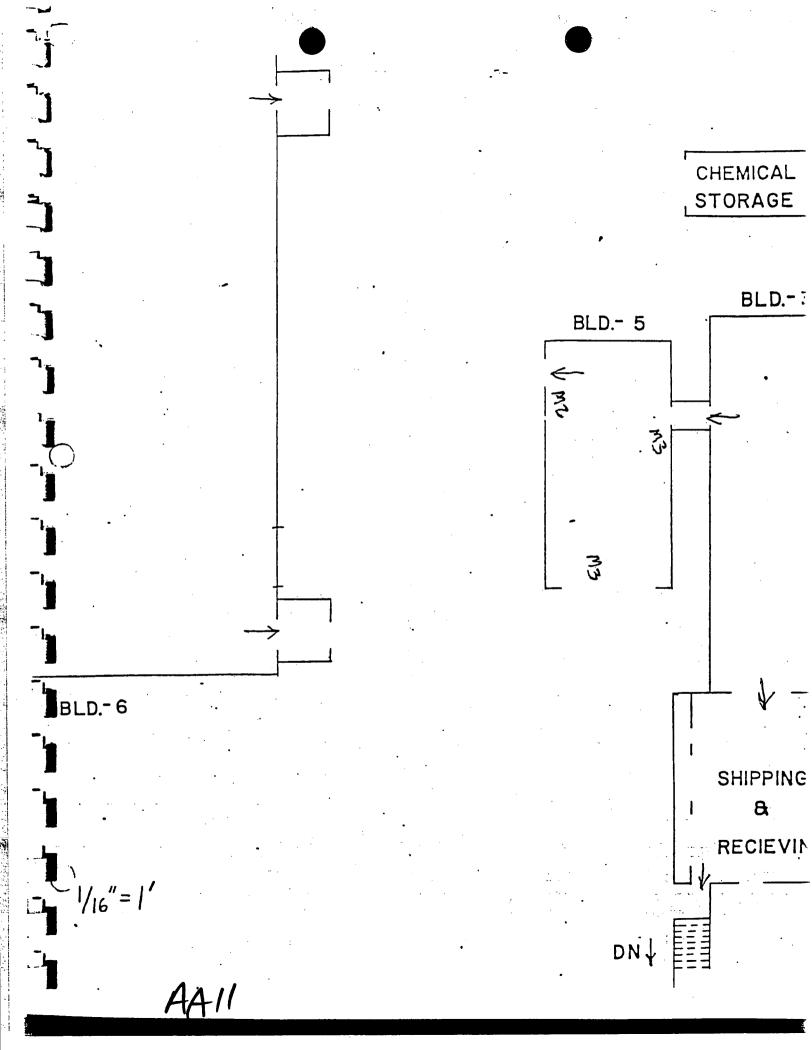
M3 DRY CHEM. "
Q HAZARDOUS MATERIALS STORAGE

KI EYE WA'SH •

K2 EMERGENCY SHOWER







IN THE EVENT A SPILL OR LEAK OF HAZARDOUS MATERIAL OR WASTE HAS COCURED, PROCEDURES FOR HANDLING SUCH AN EMERGENCY CORRECTLY MUST BE CARRIED OUT.

MAINTENANCE PERSONNEL WILL BE DESIGNATED AND TRAINED TO ASSIST THE EMERGENCY COORDINATOR IN THE IMMEDIATE CONTAINMENT AND CLEARLUP. THE CRITICAL AREAS, WHERE HAZARDOUS PROCESS CHEMICALS ARE STORED OR USED IN LARGE QUANTITIES IS AS FOLLOWS:

1. CHEMICAL STORAGE SHED

ACETONE
LAQUER THINNER
GENESOLV DFX

602 SOLVENT
DENATURED ALCOHOL (SYNASOL)
ALPHA 450F THINNER
ALPHA 2444 RINSE AID
ALPHA 850-25 SOLDER FLUX

HAZARDOUS WASTE GENERATED IS ALSO STORED IN THE SHED. ACCUMULATION AND PERIOD OF STORAGE WILL NOT EXCEED 90 DAYS.

2. BUILDING #1L, FLOW SOLDER ALPHA 450F THIMMER ALPHA 850-25 SOLDER FLUX ALPHA 2444 RINSE AID

3. BUILDING #7 & #1L, GENESOLV MACHINE GENESOLV DFX

4. SHIPPING/RECEIVING INCOMING MATERIALS

THE ABOVE ARE ALL PRIMARY AREAS OF A POSSIBLE SPILL OR LEAK. GOOD AND PROPER MAINTENANCE AND DAILY CHECKING OF DRUMS AND TANKS CAN PREVENT A SPILL OR LEAK. THE ATTACHED DRAWING SHOWS THE LOCATION OF THE ABOVE AREAS. THE LOCATION OF THE EMERGENCY EQUIPMENT IS ALSO MARKED AND THE KEY FOR THE CABINET CAN BE ATTAINED FROM MAINTENANCE.

IN CASE OF A SPILL OR LEAK, MAINTENANCE PERSONNEL MUST FOLLOW INSTRUCTIONS OF THE EMERGENCY COORDINATOR AND, OR, PREPARE AS FOLLOWS:

- A. SEAL OFF AREA TO PREVENT INJURY AND ENTRY. TAPE IS IN EMERGENCY CABINET, CR USE OTHER MEANS OF BLOCKING OFF ENTRY.
- B. CHECK WITH EMERGENCY COORDINATOR WETHER SPILL IS LIQUID OR SCLID. THE HAZARDOUS MATERIAL BOOKLET WILL GIVE DETAILS AS TO WHAT PROTECTION IS NECESSARY TO BRING NO INJURYS TO ANYONE. BOOK IS LOCATED IN EMERGENCY CABINET.
- C. PUT ON PROTECTIVE CLOTHING (BCOTS, SUIT, GLOVES, EYE PROTECTION, MASK)
 ACCORDINGLY.
- D. GET SPILL CONTROL PILLOWS, WASTE BAGS AND/OR 30 GALLON DRUM TO THE SPILL AREA. EQUIPMENT FOR A-B-C-D IS LOCATED IN VESTIBUL AREA OF BUILDING #6.
- E. STOP THE SPILL FLOW WITH SPILL PILLOWS IF APPLICABLE AND IF POSSIBLE TRANSFER CHEMICAL FROM LEAKING CONTAINER TO THE EMERGENCY DRUM. CLOSE AND SECURE SUCH UNTIL TRANSPORT. HAZARDOUS MATERIAL BAGS SHOULD BE USED TO CONTAIN SPILL PILLOWS AFTER CHEMICAL IS ABSORBED. ACID OR ALKALINE NEUTRALIZER MAY ALSO BE

AA12

USED. CHECK WITH COORDIVATOR FIRST. SWEEP UP ABSORPTED MATERIALS AND PLACE ALL CLEAN UP PRODUCTS IN THE SPECIAL BAGS.

F. IF FIRST AID IS REQUIRED BY ANYONE PEFORE, DURING, OR AFTER CLEAMUP, CALL THE DESIGNATED FIRST AID HELP.

MATT BIDWELL

EARLE SEELY

G. SUITS, POOTS, AND OTHER EQUIPMENT USED AND WORN DURING CLEANUP MUST BE HOSED DOWN, DRIED AND RETURNED TO THE EMERGENCY CABINET IN BUILDING #6 VESTIBUL. THIS MAY HAVE TO BE DONE OVER DRUMS TO PREVENT THE WATER FROM CONTAMINATING THE SOIL.

COOPERATION AND ALERTNESS, BUT MOST IMPORTANT, QUICK AND PROPER ACTION CAN KEEP A SPILL OF CHEMICALS FROM TURNING INTO A TRAGEDY. IT WILL BE TO EVERYONES BENEFIT TO HANDLE THESE MATTERS WITH CARE AND CAUTION. WE ALL HOPE THESE EMERGENCY PROCEDURES WILL NEVER HAVE TO BE CARRIED OUT, BUT IF AND WHEN AN ACCIDENT CCCURS IT IS TO EVERYONES BENEFIT TO HANDLE THE CLEANUP QUICKLY, PROPERLY AND WITH SAFETY.

IN THE EVENT OF A FIRE SMOKE EMERCENCY, IT WILL BE ES SITIAL TO FOLLOW AN ESTABLIS SET OF PROCEDURES. DOWTY RFL INDUSTRIES UTILIZES THE A.D.T. (American District Telegraph FIRE ALARM SYSTEM OR AM INFLAMT PAGING SYSTEM TO INITIATE A RESPONSE FOR THE INTERMAL FIRE BRIGADE.

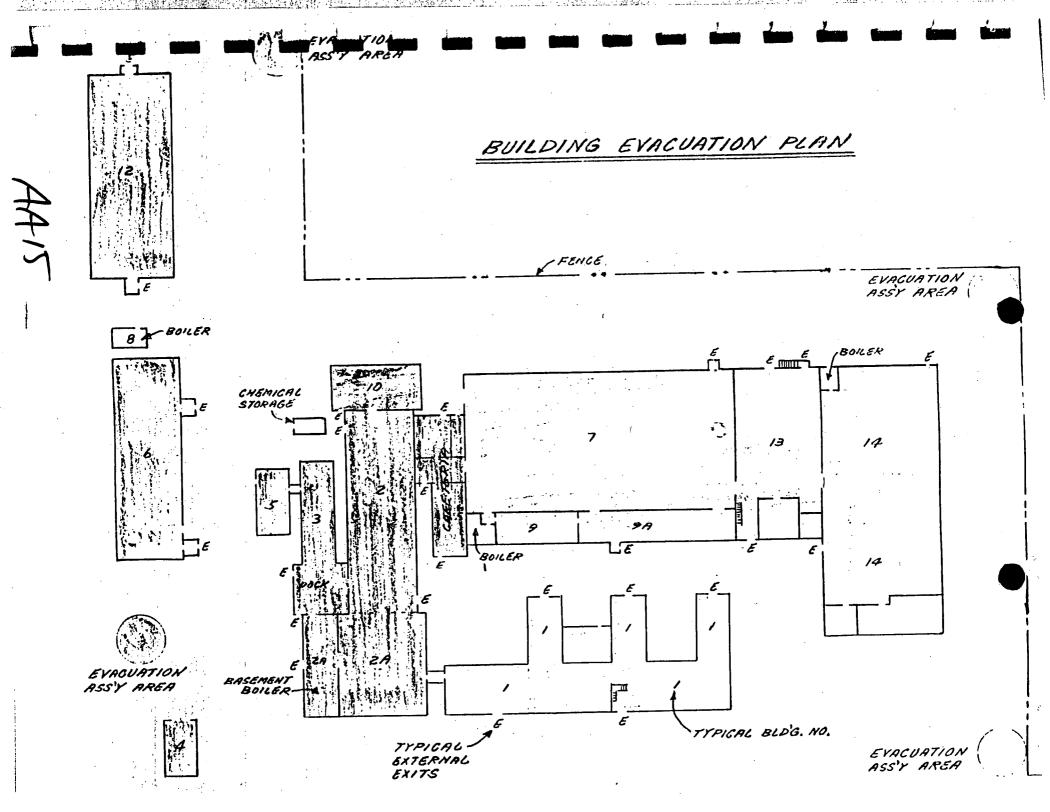
SHOULD AN A.D.T. ALARM BELL SOUND IN A BUILDING, THE SUPERVISOR SHOULD INVEDIATLY EVACUATE THE AREA AS PER THE ATTACHED PLAN, THEN PRESS 7 ON THE MEAREST PHONE AND SAY CODE FED, GIVING THE BUILDING LOCATION AND DEPARTMENT. THE FIRE BRIGADE WILL RESPOND TO THE ENERGENCY AS WELL AS THE LOCAL FIRE DEPARTMENT SINCE IT IS AN AUTOMATIC ALARM. THE FIRE BRIGADE WILL MAKE SURE ALL EMPLOYEES ARE EVACUATED, ALL FAMS ARE SHUT OFF, FIRE DOCRS CLOSED TO CONTAIN FIRE OR SMOKE, AND DIRECT THE LOCAL FIRE DEPARTMENT TO THE AREA OF EMERGENCY.

SHOULD THE FIRE BE SMALL IN NATURE WHERE THE A.D.T. ALARM WAS NOT INITIATED OR A SMOK CONDITION. THE SUPERVISOR OR LEAD PERSON WOULD PREES 7 ON THE PHONE AND SAY CODE RED, GIVE THE BUILDING LOCATION AND DEPARTMENT. IMMEDIATLY AFTER, EVACUATE THE AREA OF EMPLOYEES AND CLOSE FIRE DOORS IF POSSIBLE TO CONTAIN FIRE OR SMOKE. THE FIRE BRIGADE WILL RESPOND TO THE EMERGENCY AND DETERMINE IF THE LOCAL FIRE DEPARTMENT IS REQUIRED. IF THE LOCAL FIRE DEPARTMENT IS NOT REQUIRED THE FIRE BRIGADE WILL HANDLE THE EMERGENCY WITH AREA FIRE EXTINGUISHERS OR PORTABLE EXHAUST FANS.

DURING EVACUATION, THE SUPERVISOR SHOULD TRY TO KEEP HIS OR HER GROUP TOGETHER.

IMMEDIATELY UPON REACHING THE EVACUATION POINT, THE SUPERVISOR WILL PREPARE A LIST OF ALI
HIS PERSONNEL AT THAT POINT. IF THERE IS AN EMPLOYEE MISSING HE SHOULD IMMEDIATLY
MOTIFY A FIFE ERICADE MEMBER.

RESITRY INTO THE AFFECTED AREA WILL BE MADE ONLY AFTER CLEAPANCE IS GIVEN BY THE EMERGENCY COORDINATOR. AT HIS DIRECTION, A SIGNAL OR OTHER MOTIFICATION WILL BE GIVEN FOR RESUTRY INTO THE FACILITY.



AMERICAN INDUSTRIAL MARINE SERVICES, INC.

P.O. BOX 9128 • NEWARK, NEW JERSEY 07104 • (201) 589-0992

February 21, 1986

R F L Industries Inc. Powerville Road Boonton, N.J. 07005 Attn: Jack Slater

Dear Mr. Slater,

American Industrial Marine Services would be pleased to be listed as your spill contractor. Our equipment inventory includes 2 - vacuum trucks, 1 - vactok, and marine support equipment. All of our equipment is stored in response trailers to allow us to respond quickly to any emergency.

I feel it would be beneficial to both of our companies if we scheuled a site inspection. This would enable us to become familar with your plant and know which areas should be defended first.

I want to thank you for your interest in American Industrial Mari Services. If you have any questions please do not hesitate to call.

Very truly yours,

AMERICAN INDUSTRIAL MARINE SERVICES, INC.

Harry Whalen Vice President

HW/rm Encl:

EPA permit
NJ DEP permit

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7:26-9.4(b)2

WASTE CHARACTERISTICS

This section describes the chemical and physical nature of the hazardous wastes stored at Dowty RFL Industries facility and the waste analysis plan for sampling, testing, and evaluating the wastes to assure that sufficient information is available for their safe handling.

Chemical and Physical Analyses

Hazardous wastes are stored at the RFL facility at the container storage area, located in the chemical shed. All wastes are stored in sealed and properly labeled 5 gallon containers. The wastes can be grouped into the following general classifications:

- o Toxic
- o Ignitible
- o Corrosive

The wastes generated and stored at the site by RFL are sumarized below:

Description of Waste	DOT Hazardous Class	Quantity	Units	EPA Waste Type
Waste Methylethylketone	Flammable Liquid	6	1	U159
Waste Flammable Liquid N.O.S.	Flammable Liquid	30	1	D001
Waste Sodium Hydroxide (Flake)	Corrosive Material	600	3	D002
Waste Corrosive Liquid N.O.S.	Corrosive Material	279	, 1	D002
Waste Alkaline Liquid N.O.S.	Corrosive Material	4	1	D002 •
Hazardous Waste Liquid N.O.S.	ORM-E	55	1	x850
Waste Corrosive Solid N.O.S.	Corrosive Material	600	3	D002
Waste ORM-A N.O.S.	ORM-A	500	·3	F001
Waste Chemicals N.O.S.	Non-regulated	50	3	X910
Waste Mercury, Metallic	ORM-B	20	3	D009
Hazardous Waste Solid N.O.S.	ORM-E	800	3	D002
•.				

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Because RFL stores only those wastes generated on-site from processes monitored for production efficiency by plant personnel, the characteristics of the wastes are well known. Furthermore, the composition of the wastes are not expected to change without the plant's knowledge beforehand, or without an indication that an unplanned and uneconomical mistake had occurred in the production process. Table 1 summarizes the waste generated by RFL, and Appendix A contains a list of all hazardous materials on-site, their storage location, their quantities, and a guide for potential hazards, and the estimated amount generated per year. As a result of having extensive knowledge of the waste characteristics, RFL does not require testing to verify that the waste contents have not changed.

RFL will maintain all analytical data from their contracted waste hauler in the operating record and reports the latest analytical results on the sheets supplied by their contracted waste hauler.

Test Parameters

Operating experience has shown that the steel containers used by RFL are compatible with any of the wastes generated on-site and stored in the containers. Furthermore, data in the Chemical

Engineer's handbook indicates that only mineral acids significantly deteriorate steel containers, and no waste mineral acids are generated by RFL.

In order to ensure that wastes are not placed in reused containers containing residual materials that are incompatible, all containers are filled with the contaminated form of the material originally stored in the container. Shop managers and foremen are under strict instructions to contact the environmental coordinator any time a question concerning container management arises.

Sampling

No sampling is conducted by RFL.

Frequency of Analysis

Because all of RFL's hazardous waste streams are from controlled production processes with known inputs and outputs, regular sampling and analysis is not required. Any waste stream will be tested by a contracted laboratory when the inputs to the process change significantly or when the process itself changes significantly. The purpose of such analysis is to identify any changes in characteristics resulting in a necessary change of handling procedures. This frequency of analysis fulfills the frequency requested by RFL's contracted transporter.

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Additional Requirements for Wastes Generated Off-Site

This facility only handles on-site generated wastes. Therefore, requirements for wastes received from off-site generators do not apply.

Waste Analysis Plan - Unusual Circumstances

This subsection describes the procedures to be followed under other-than-routine circumstances, specifically spills, leaks, or ruptures of containers in the storage area, and during closure.

As discussed in the Contingency Plan after a spill has been absorbed and the absorbent material scooped up and drummed, the floor of the area will be pressure flushed with water, with the wash water flowing into the sumps. From there, two representative samples of the water are taken with a weighted bottle sampler and analysed for the appropriate contaminants. If the difference between the concentration of the contaminant in the sump water is insignificantly different from the background levels previously monitored, no further analysis is necessary. If not, then the contaminated water from the sump must be appropriately emptied and treated or stored, and the procedure repeated until the concentrations of contaminants no longer meets EPA/NJDEP

characteristics as a hazardous waste.

The plan for analyzing the sump contents at closure is very similar. The washdown and pressure washing of the floor and ancillary equipment will result in accumulated water in the sumps. Analysis for the appropriate contaminants in replicate samples from the sumps will reveal if further decontamination is required. If the concentration of contaminants is insignificantly different from background levels or is below the hazardous level, then decontamination is complete. If not, the sumps must be properly emptied and the pressure washing, replicate sampling, and analysis procedure repeated until the concentration of contaminants no longer meets EPA/NJDEP characteristics as a hazardous waste.

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Boonton, New Jersey

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U.S. Environmental Protection Agency
Region II

26 Federal Plaza
New York, New York

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U.S. Environmental Protection Agency

U.S. Environmental Protection Agency
Office of Water Enforcement
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Submitted by:

JRB Associates - 183 - 183 - 183 - 183

A Company of Science Applications
40 Eisenhower Drive

Paramus, New Jersey 07652

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EPA Contract No. 68-01-5052, DOW 10 JRB Project No. 2-811-03-328-07

ATTACHMENT BB I

I. BACKGROUND

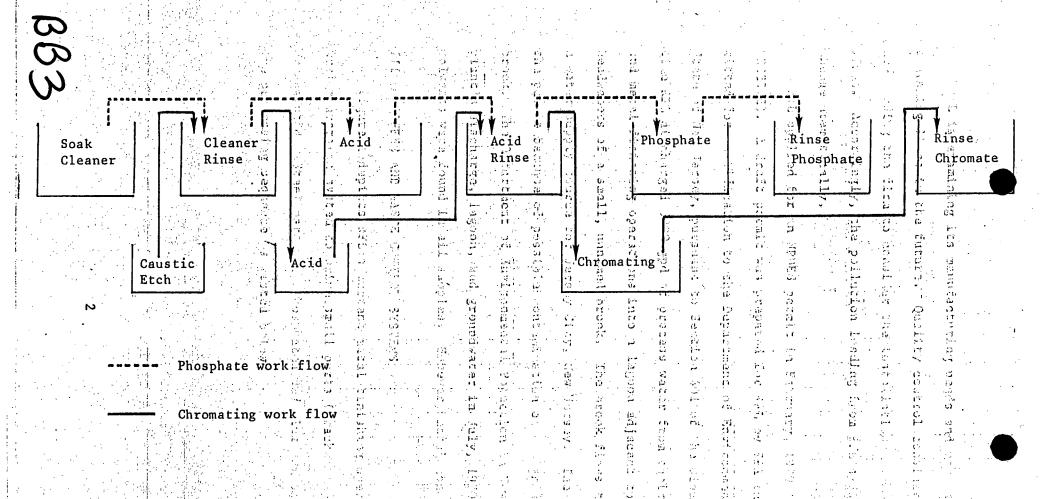
Under EPA Contract No. 68-01-5052, DOW #10, JRB was directed to develop the technical elements of a National Pollution Discharge Elimination System (NPDES) permit consistent with the Consolidated Permit Regulations (40 CFR 122-125) for RFL Industries in Boonton, New Jersey. The firm was visited by JRB engineers on November 15, 1981. This report proposes permit limitations, a compliance schedule, and monitoring requirements for RFL based on data gathered in the plant visit and from other technical information. This report also outlines the technologies required for complying with the proposed limitations, and costs to install and operate them. The economic effects of imposing these limitations on RFL are also addressed in this report.

Caromste

II. DESCRIPTION OF THE FACILITY

RFL industries makes electronic instruments for the aerospace and communications industries. Their Boonton facility assembles components manufactured on site or at other RFL plants, or bought from vendors. At one time the Boonton facility discharged 5000 gallons per day (gpd) of rinse water from its metal-finishing operation which included printed circuit boards. The printed circuit board line was subsequently moved to another RFL facility. Currently, the firm's metal-finishing operation is limited to a small phosphating and chromating line which prepares small electronic parts for painting. The discharges from these processes are intermittent and average only about 100 gpd. There are no other sources of process wastewater at the facility (spray painting is done at the facility but in dry booths). Figure 1 depicts RFL's current metal-finishing operation.

Figure 1
METAL FINISHING PROCESS
AT
RFL INDUSTRIES



RFL is examining its manufacturing needs and may add additional metalfinishing lines in the future. Quality control considerations, for example,
are leading the firm to consider the installation of anodizing and zinc plating
lines. Accordingly, the pollution loading from RFL's Boonton facility may
change dramatically. Spray rinds (5) chematics
(6) spray ri

RFL applied for an NPDES permit in February, 1979 (NPDES Permit No. NJ 0032972). A draft permit was prepared for RFL by EPA in March, 1974 and submitted for certification to the Department of Environmental Protection of the State of New Jersey, pursuant to Section 401 of the Clean Water Act. At that time RFL discharged 5000 gpd of process water from their printed circuit board and metal-finishing operations into a lagoon adjacent to a fire pond at the headwaters of a small, unnamed brook. The brook flows to the Rockaway River, a water supply source for Jersey City, New Jersey. The State did not certify the permit because of possible contamination of the groundwater and the brook. The Department of Environmental Potection in New Jersey sampled the plant's discharge, lagoon, and groundwater in July, 1980. High levels of solvents were found in all samples. However, metal concentrations were low.

III. PROCESS AND WASTE CONTROL SYSTEMS

Figure 1 depicts RFL's current metal-finishing operation. It is a chemical conversion system to prime small parts (brackets, panels) before they are painted. Steel parts are phosphated and aluminum parts are chromated. The processing sequence is listed below.

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3

PHOSPHATING

CHROMATING

- (1) soak cleaner
- (2) spray rinse
- (3) acid
- (4) spray rinse
- (5) phosphate
- (6) spray rinse

- (1) caustic etch
- (2) spray rinse
- (3) acid
- (4) spray rinse
- (5) chromating
- (6) spray rinse

The metal-finishing line processes 10 to 15 small hand racks a day.

Rinsewater is turned on only when the line is operating. Each rinse tank runs at about 5 gallons per minute for about 4 minutes per day (4 tanks x 5 gpm x 5 min/day =100 gpd). Rinse water is piped to the lagoon for lime treatment.

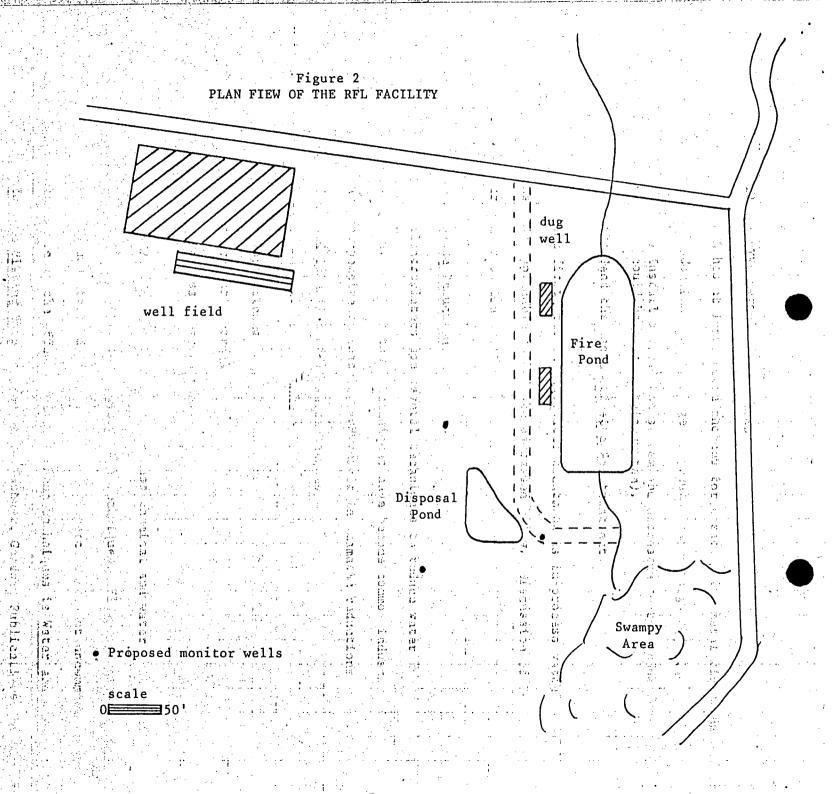
Floor spills are also piped to the lagoon. Table 1 lists the volumes and dump frequency of the process tanks.

The lagoon is located adjacent to the fire pond about 500 feet from the metal-finishing room. Figure 2 is a rough plan view of the RFL facility. RFL neutralizes the wastewater in the lagoon with lime but does not treat hexavalent chromium (from the chromating process). According to RFL's environmental engineer, the lagoon has never been full enough to overflow. In all likelihood, infiltration through the clay layer is occurring as is indicated by the NJDEP data. Accordingly, although RFL is not technically a direct discharger, the lagoon is a likely contributor of pollution to the brook through subsurface flow.

The proposed NPDES permit limits for RFL prepared by JRB for this report were developed assuming that the firm discharges directly to the brook. The proposal includes limits for pollutants which RFL may discharge in the future because the firm is considering expanding its metal-finishing process.

Table 1
PROCESS DUMP FREQUENCIES
AT RFL

Process Tank Size (gallons)	Dump Frequency
Caustic Etch (Enthone, G-24)	6 months
Acid (Enthone, E-93)150	6 months
Soak Cleaner (Enthone, Q-527) 150	6 months
Acid (10% Acetone 32, 45% HC1, 45% H ₂ O) 150	6 months
Phosphate (Patclin, 936) 250	g yearly
Chromate (Enthone, A1-990) 250	yearly



IV. WASTE CONTROL ALTERNATIVES

RFL has at least three choices for treating its metal finishing waste:

- (1) Continue to discharge to groundwater through the lagoon.
- (2) Install a treatment system and discharge to the brook (the lagoon could be part of this system).
- (3) Send the waste off-site for treatment.

The first step in wastewater treatment is in-process wastelreduction.

Methods applicable to RFL are addressed below. Discussion of RFL is waste treatment options follow.

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Waste Reduction

Electroplaters use several techniques to reduce water and chemical consumption. Many of these techniques have become common industry practices, are inexpensive to install, and result in dramatic reductions in waste loads.

Included in a list of these techniques are:

- Counter flow rinses
- or drage maders to is hard to cale

- Avembes, 1881 assum

- Spray rinses
- Dragout controls
- Process substitutions.

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Recent advances on the common waste reduction techniques by electroplating engineers have greatly improved the efficiency of these techniques without

increasing the cost of using them. A November, 1981 article in the newsletter of the American Clean Water Association is included with this report to illustrate one of these advances. RFL already uses spray rinses in their metalfinishing line, and the firm is using water at a very low rate (100 gpd). Nonetheless, the average flow rate of 5 gpm used at each rinse is still higher than the minimum they could achieve with some of the newer techniques.

For example, a single dragout tank after the chromate and the phosphate tank could enable RFL to reduce wastewater by about 20 gpd without affecting product quality. In addition, the discharge from the acid rinse tanks could be used to feed the caustic and cleaner tanks. This would save at least 20 gpd because the caustic cleaner fresh water lines would be eliminated. These suggestions could reduce RFL's water use from 100 gpd to 55 gpd.

Using these techniques, the firm would have two dragout solutions to treat. However, the process solutions are very dilute and used infrequently. As a result, the dragout solution would not need to be treated very often. Without specific dragout numbers it is hard to calculate how often treatment would be needed, but in all likelihood it would be less than four times a year. Assuming that the dragout tanks are the same size as the process tanks a total of 2000 gallons of dragout solution would need treatment each year or about 10 gpd. Accordingly, RFL could reduce its daily waste generation from 100 gpd to 65 gpd. A more extensive analysis of the firm's metal-finishing operation would probably yield additional savings.

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Waste Treatment Alternative and Treatment Costs: sotly

Groundwater Discharge

Inlast

RFL could continue to discharge to groundwater through the lagoon.

Since they do not need an NPDES permit for this discharge, it is not further considered in this report.

RFL's waste could be treated very inexpensively in a batch treatment system. The components of the system would be: and assume the components of the system would be:

- (1) Chromium reduction for chromating waste the production for chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste the production of the chromating waste waste the chromating waste waste waste which waste waste which waste waste waste waste waste waste waste which waste wast
- (2) Neutralization tank for all other wastes, the state of the state o
- (3) Clarifier or filter. Fired to take periodic composing pages.

A 250-gallon batch treatment system would be more than enough to properly treat this waste. It would cost approximately \$25,000.

EPA cost charts for treating electroplating wastes do not cover system More not easy anty Alexharge all of the estriction of as small as 250 gallons. A consensus of JRB engineers experience in designing ess, these exacts should ofmala in the same a second plai#ting waste central systems agrees that \$10,000 is a high estimate for romed to coede prodesse, elimble 2 contra e e e installing a 250-gallon batch treatment system. Depending on how sophisti-The imain yenging because tomorto a cated RFL would choose to make the system, costs could be as low as \$3,000. Charte of the properties of Gowerer with thruld Operating costs would be minimumal. They could vary between \$100 and _____ j siac \$500/month. Therefore, annualized treatment costs would range from about on a reflection compared to the State about a collection of the State ac \$2000 to \$8500 assuming ten-year equipment life and 20 percent interest. The state of the second of the

en linery which are been easy should not tabled out

Off-Site Treatment:

steems to des manuf

RFL pays a waste hauler to remove batch dumps from the chromating process. The cost is \$200 per 55 gallon drum. Using this figure for hauling RFL's entire waste load, the firm would pay about \$200/day for waste treatment.

This assumes the waste is discharged directly into the drums. Annual hauling costs for RFL would approach \$40,000. Unless the hauling charge were lowered, this alternative would not be cost effective.

V. PROPOSED NPDES PERMIT CONDITIONS

Discharge Limits

The proposed permit limits for RFL are shown in Table 2. Many of them are the same as in RFL's 1979 draft permit. The metal limits are for daily maximum and daily average concentrations and approach the minimum solubility of the metal hydroxides. Nonetheless, with process controls and standard chemical physical treatment, RFL should be able to meet these values. However, RFL should only be required to take periodic composite samples to track compliance with daily average limits. They should not be required to check daily maximum values for cost reasons. EPA or State inspectors may check for compliance with daily maximum values, so they should be included in the firm's permit.

RFL does not currently discharge all of the metals in its draft permit. Nevertheless, these metals should remain in the permit because the firm may again use them in their process. Table 2 contains limits for zinc and aluminum (not included in the draft permit) because the firm is considering adding these electroplating processes. However, RFL should not be required to sample for copper, lead, nickel, tin, zinc, and aluminum until they begin using these plating operations. The firm should be required to supply EPA and NJDEP with a start-up schedule for new metal-finishing process lines.

RFL no longer uses solvents in its manufacturing processes. Accordingly, there should not be any significant level of pretroleum hydrocarbons in the firm's discharge. However, NJDEP is still concerned about hydrocarbons in the environment around the RFL facility, and a proposed limit for petroleum

BB11

TABLE 2

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Effluent Characteristic Gr	coss - <u>Discharg</u>	ge Limitations	,	Monitoring Req	uirements
kgs/d Daily	lay(lbs/day) v Avg Daily	other units (sp	pecified) Daily Max	Measurement Frequency	Sample Type
Total Suspended Solids Fluorides Temperature °C(°F) Aluminum Chromium Copper Lead Nickel Petroleum Hydrocarbons* N	I/A	A 20 mg/1 A 20 mg/1 A N/A A .5 mg/1 A .5 mg/1 A .5 mg/1 A .5 mg/1 A .7 mg/1 A .7 mg/1 A .7 mg/1 A .7 mg/1 A .7 mg/1 A .7 mg/1 A .7 mg/1 A .7 mg/1 A .7 mg/1	N/A 40 mg/1 40 mg/1 30 (86) 1.0 mg/1 1.0 mg/1 1.0 mg/1 2.0 mg/1 2.0 mg/1 1.0 mg/1	Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly	N/A Composite Composite Composite Composite Composite Composite Composite Composite Composite Composite Composite Composite

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored monthly.

The sample type for this parameter shall be grab.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s); at the outfall of discharge serial number 001.

*Analysis for this parameter shall utilize the Federal EPA - Environmental and Support Laboratory Method (Freon Extraction - Silica Gel Absorption - Infrared Measurement).

hydrocarbons appears on Table 2. This limit is 50 percent of the value in the draft permit. It was set at this level for two reasons:

- (1) If the firm does not discharge solvents, they can easily meet the number.
- (2) If hydrocarbons are present in the discharge, the trigger for a violation should be a low one because of the past contamination detected by NJDEP.

Monitoring Frequency

The monitoring frequency listing list on Table 2 is consistent with EPA and New Jersey practices.

Cost Impacts

RFL's wastewater treatment requirements are minimal. The proposed sampling schedule requires only one composite sample per month analyzed for TSS, chromium, petroleum hydrocarbons, and pH. Probable cost for this analysis is about \$35.

Converting the annualized cost of treatment (Section IV) to a monthy charge and adding in the cost of analysis, the firm will be paying less than \$800/month for waste control (probably much less). This cost is equivalent to less than the salary for one employee and should not severely impact the firm's balance sheet.

Compliance Schedule

A very liberal compliance schedule for RFL is listed below which should begin as soon as the NJDEP decides if the firm can continue discharging to groundwater.

1	Action		Months
(1)	Preliminary engineer	ing study	2
(2)	Final engineering pl	lans/equipment orders	2
(3)	Order and install ed	quipment	6
(4)	Start-up		_1
	TOTAL		11

The engineering study has actually begun. RFL has hired an engineering firm to design in-process waste reduction measures for their metal-finishing line. The report was due in December, 1981 but has been delivered as yet.

TABLE 1

WASTE TYPES AND CHARACTERISTICS

Hazardous Waste No.	Waste Type	Waste Characteristic
U228	Trichloroethylene	Toxic
U226	1,1,1 - Trichloroethane	Toxic
U077	1,2 - Dichloroethane	Toxic
u079	1,1 - Dichloroethylene	Toxic
U 078	Toluene	Toxic
U220	Methylene Chloride	Toxic
U210	Tetrachloroethylene	Toxic
D008	Lead	Toxic
D007	Chromium	Toxic
D006	Cadmium	Toxic
P030	Cyanides	Toxic